#### Chapter Nine: Contents

(Configuration File Keys – 15 December 2003 – LA-UR 00-1725 – TRANSIMS 3.0)

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## Chapter Nine—Configuration File Keys

#### 1. INTRODUCTION

In an effort to help users who have become experienced with using TRANSIMS, we have collected all of the TRANSIMS configuration file keys into this section. The keys are labeled by volume and chapter. If a key is not in the current configuration file, the configuration file key CONFIG\_DEFAULT\_FILE specifies the name of a configuration file whose keys and values are to be used.

#### 1.1 Examples

Figures 1 and 2 give examples of typical configuration and default configuration files, respectively. Note that when keys are duplicated in these files, the value in the non-default file takes precedence.

#### Fig. 1. Example configuration file.

```
CONFIG_DEFAULT_FILE /home/transims/allstr-run/default.config

NET_PROCESS_LINK_TABLE Process_Link.minimal.tbl

ROUTER_MAX_DEGREE 15

CA_BIN
/home/projects/transims/config/integration/bin/ARCH.PVM.SUN4SOL2/CA
CA_SIM_STEPS 7200
CA_MASTER_MESSAGE_LEVEL 1

PAR_COMMUNICATION PVM
PAR_SLAVES 1
```

#### Fig. 2. Example default configuration file.

```
# The width of a lane in meters
# float
GBL LANE WIDTH 3.5
# The length of a cell in meters
# float
GBL_CELL_LENGTH 7.5
NET DIRECTORY
                           /home/transims/allstr-run/network/
NET_NODE_TABLE
                           Node.tbl
NET_LINK_TABLE
                           Link.tbl
NET_POCKET_LANE_TABLE
                         Pocket_Lane.tbl
NET_LANE_USE_TABLE Lane_Use.tbl
NET_SPEED_TABLE
                           Speed.tbl
NET_LANE_CONNECTIVITY_TABLE Lane_Connectivity.tbl
NET_TURN_PROHIBITION_TABLE Turn_Prohibition.tbl
NET_UNSIGNALIZED_NODE_TABLE Unsignalized_Node.tbl
NET_SIGNALIZED_NODE_TABLE Signalized_Node.tbl
NET_PHASING_PLAN_TABLE Phasing_Plan.tbl
NET_TIMING_PLAN_TABLE Timing_Plan.tbl
NET_SIGNAL_COORDINATOR_TABLE Signal_Coordinator.tbl
NET_DETECTOR_TABLE Detector.tbl
NET_BARRIER_TABLE
                          Barrier.tbl
NET_PARKING_TABLE Parking.tbl
NET_TRANSIT_STOP_TABLE Transit_Stop.tbl
NET_ACTIVITY_LOCATION_TABLE Activity_Location.tbl
NET_PROCESS_LINK_TABLE Process_Link.tbl
NET_STUDY_AREA_LINKS_TABLE Study_Area_Link.tbl
POP_NUMBER_HH
POP_BASELINE_FILE /home/transims/allstr-run/output/allstr.basepop POP_LOCATED_FILE /home/transims/allstr-run/output/allstr.locpop
POP_STARTING_VEHICLE_ID 100000
POP_STARTING_HH_ID
POP_STARTING_PERSON_ID 101
ACT_PARTIAL_OUTPUT /home/transims/allstr-run/output/allstr.activit:
ACT_FEEDBACK_FILE /home/transims/allstr-run/output/allstr.partact
ACT_WORK_LOC_ALPHA 1
                       /home/transims/allstr-run/output/allstr.activities
ACT_WORK_LOC_BETA
ACT_WORK_LOC_GAMMA
                       1
ACT_TIME_ALPHA
ACT_TIME_BETA
                       1
ACT_MODE_ALPHA
ACT_MODE_BETA
ACT_WORK_LOCATION_OPTION 1
ACT_MODE_CHOICE_OPTION 4
ACT_HOME_HEADER HOME
ACT_WORK_HEADER
                       WORK
ACT_ACCESS_HEADER
                       ACCESS
```

```
OUT_DIRECTORY
                           /home/transims/allstr-run/output
OUT_SNAPSHOT_NAME_1
                           allstr.snapshot
OUT_SNAPSHOT_BEGIN_TIME_1
OUT_SNAPSHOT_END_TIME_1
                           86400
OUT_SNAPSHOT_TIME_STEP_1
OUT_SNAPSHOT_EASTING_MIN_1
                           1
                           1
                           1000000
OUT_SNAPSHOT_EASTING_MAX_1
OUT_SNAPSHOT_NORTHING_MIN_1 1
OUT_SNAPSHOT_NORTHING_MAX_1 1000000
OUT_SNAPSHOT_NODES_1
                           /home/transims/allstr-run/data/allstr.nodes
OUT_SNAPSHOT_LINKS_1
                           /home/transims/allstr-run/data/allstr.links
OUT_SNAPSHOT_SUPPRESS_1
OUT_SNAPSHOT_FILTER_1
OUT_EVENT_NAME_1
                           allstr.event
OUT_EVENT_BEGIN_TIME_1
OUT_EVENT_END_TIME_1
                           86400
OUT_EVENT_TIME_STEP_1
                           1
OUT_EVENT_EASTING_MIN_1
                           1
OUT_EVENT_EASTING_MAX_1
                           1000000
OUT_EVENT_NORTHING_MIN_1
OUT_EVENT_NORTHING_MAX_1
                           1000000
OUT_EVENT_NODES_1
                           /home/transims/allstr-run/data/allstr.nodes
OUT_EVENT_LINKS_1
                           /home/transims/allstr-run/data/allstr.links
OUT_EVENT_SUPPRESS_1
OUT_EVENT_FILTER_1
OUT_SUMMARY_NAME_1
                           allstr.summary
OUT_SUMMARY_BEGIN_TIME_1
OUT_SUMMARY_END_TIME_1
                           86400
OUT_SUMMARY_TIME_STEP_1
                           900
OUT_SUMMARY_SAMPLE_TIME_1
                           60
OUT_SUMMARY_BOX_LENGTH_1
                           150
OUT_SUMMARY_EASTING_MIN_1
                           1
                           1000000
OUT_SUMMARY_EASTING_MAX_1
OUT_SUMMARY_NORTHING_MIN_1 1
OUT_SUMMARY_NORTHING_MAX_1 1000000
OUT SUMMARY NODES 1
                           /home/transims/allstr-run/data/allstr.nodes
OUT_SUMMARY_LINKS_1
                           /home/transims/allstr-run/data/allstr.links
OUT_SUMMARY_SUPPRESS_1
OUT_SUMMARY_FILTER_1
# see IO/log.h for possible levels
CA_SLAVE_MESSAGE_LEVEL
CA_MASTER_MESSAGE_LEVEL
# name of executable (used by Msim.pl)
CA_BIN CA
# the max number of occupants of a bus
# int > 1
CA_BUS_CAPACITY
                50
# the number of cells a bus occupies in a jam
# float > 0.0
CA_BUS_LENGTH
                 2.0
# the acceleration of a car, bus, etc.
# (in cells per timestep per timestep)
# float > 0.0
CA MAXIMUM ACCELERATION
CA_BUS_MAXIMUM_ACCELERATION 0.1
# the maximum speed of a car, bus, etc.
# (in cells per timestep)
# float > 0.0
CA_MAXIMUM_SPEED
CA_BUS_MAXIMUM_SPEED
```

```
# If nonzero, no attempt will be made to read in transit vehicles
# and transit passengers will not be simulated.
# int(?)
CA_NO_TRANSIT
# Some time after a vehicle becomes off plan, it will exit the simulation.
# the probability that a vehicle with speed >= 1 will decelerate by 1
# (also an increment added to the speed limit on a link)
# in the discrete version (not compiled with -DCONTINUOUS)
# float > 0 and < 1
CA_DECELERATION_PROBABILITY 0.2
# use to compute the number of cells that must be vacant in an acceptable gap
# (acceptable gap is speed of oncoming vehicle * Velocity Factor)
# float (> 1.0 ? )
CA_GAP_VELOCITY_FACTOR
# Probability of proceeding when interfering gap is not acceptable
# in cases of links with competing stop/yield signs
# float > 0 and < 1
CA_IGNORE_GAP_PROBABILITY
# The number of vehicles which can be buffered in each
# of an intersection's queues (One queue for each lane of each incoming link)
# int > 1
CA INTERSECTION CAPACITY
                            10
# Vehicles take at least this many timesteps to traverse an intersection
\# int. >= 0
CA_INTERSECTION_WAIT_TIME
# Can't change lanes if random variable drawn on each timestep for each vehicle
# is less than this
# float > 0 and < 1
CA_LANE_CHANGE_PROBABILITY
                            0.99
# number of cells ahead to look for deciding which lane is best upon entering a link
# int >= 0
CA_LOOK_AHEAD_CELLS
                         35
# If vehicle has not moved for this many timesteps,
# it becomes off-plan and chooses a different destination link, if possible.
# int >= 0
CA_MAX_WAITING_SECONDS
# The exit time is the minimum of the expected arrival time at the destination
# and the current time + OFF_PLAN_EXIT_TIME
\# int >= 0
CA_OFF_PLAN_EXIT_TIME 1
# Determines, in a complicated way, whether lane changes for the
# sake of following a plan need to be considered
# int >= 0
CA_PLAN_FOLLOWING_CELLS
# specify start time for simulation
# int
CA_SIM_START_HOUR 0
CA_SIM_START_MINUTE 0
CA_SIM_START_SECOND 0
# number of timesteps to simulate
# int >= 0
CA_SIM_STEPS 3600
# send map of locations of all accessories to all slaves
CA_BROADCAST_ACC_CPN_MAP
# migrate travelers by broadcasting them
CA_BROADCAST_TRAVELERS
```

```
# number of time-steps to be executed before slaves synchronize with master
CA_SEQUENCE_LENGTH
# Initialize the random seed
# seed48 is called with a pointer to the first element of an array
# of these 3 unsigned shorts
# unsigned short
CA_RANDOM_SEED1 1
CA_RANDOM_SEED2
CA_RANDOM_SEED3 3
# Use the cached binary representation of the network database
# in the file specified by CA_NETWORK_FILE
CA_USE_NETWORK_CACHE 0
# string
# CA_NETWORK_FILE
# The following delays model just the time it takes to walk up the steps or
# through the doors or whatever. They have nothing to do with the
# time spent waiting in the queue.
# The mean number of seconds it takes a traveler to board a transit vehicle.
# float >= 0.0
CA_ENTER_TRANSIT_DELAY 1.6
# The mean number of seconds it takes to disembark.
# float >= 0.0
CA_EXIT_TRANSIT_DELAY 1.8
# The number of seconds after a vehicle reaches the stop before
# passengers can start boarding
CA_TRANSIT_INITIAL_WAIT 5
# Name of a file containing TRANSIMS format vehicle information
# (locations, type, etc.)
CA_VEHICLE_FILE /home/transims/allstr-run/output/allstr.vehicles
CA_USE_PARTITIONED_ROUTE_FILES 0
CA_LATE_BOUNDARY_RECEPTION
                             1
CA_PARALLEL_LOG
CA_PARALLEL_IO_TEST_MODE
CA_PARALLEL_IO_TEST_INTERVAL 30
                             32
CA OUTPUT BUFFER COUNT
CA_RTM_SAMPLE_INTERVAL
# Name of a file containing TRANSIMS format transit route information
# (list of stops for each route)
# string
TRANSIT_ROUTE_FILE /home/transims/allstr-run/data/allstr.routes
# Name of a file containing TRANSIMS format transit schedule information
# (list of arrival time for each vehicle at each stop)
# string
TRANSIT_SCHEDULE_FILE /home/transims/allstr-run/data/allstr.schedules
##################### PLAN PARAMETERS #########################
# Name of a file containing TRANSIMS format legs
PLAN_FILE /home/transims/allstr-run/output/allstr.plans
```

```
ROUTER_OUTPUT_PLAN_FILE /home/transims/allstr-run/output/allstr.plans
ROUTER_ACTIVITY_FILE /home/transims/allstr-run/output/allstr.activities
ROUTER_VEHICLE_FILE /home/transims/allstr-run/output/allstr.vehicles
ROUTER_MODE_MAP_FILE /home/transims/allstr-run/data/allstr.modes
ROUTER_MAXNFASIZE
ROUTER_MAX_DEGREE
                       15
ROUTER_INTERNAL_PLAN_SIZE 400
ROUTER_VERBOSE 2
# If length < corr_thresh * dist, adjust the length</pre>
ROUTER_CORR 0.0
# ??
# float
ROUTER OVERDO 3.0
# Backdating time of travel information ??
# int
ROUTER_ZERO_BACKD 0
LOG_LOG_CONFIG
                    0
LOG LOAD NETWORK
                    1
LOG_PARTITIONING
                    1
LOG_DISTRIBUTION
                    1
LOG_RUNTIMEMONITOR
                    Λ
LOG_CONTROL
                    0
LOG TIMING
                    1
LOG_BOUNDARIES
                    Ω
LOG_ROUTING
                    1
LOG_ROUTING_DETAIL
                    1
LOG_TIMESTEP
LOG_TIMESTEP_DETAIL 1
LOG_PARALLEL
                    0
LOG VEHICLES
                    1
LOG_MIGRATION
LOG_MIGRATION_DETAIL 1
LOG_TRANSIT
LOG_EMISSIONS
LOG_IO_DETAIL
                    n
# int, will be single buffered if non-zero
VIS_SINGLE_BUFFERED 0
# Name of a file containing batch commands (unused)
# string
VIS_BATCH_FILE
# The length of a box in meters
# float
VIS_BOX_LENGTH
                     150.0
PAR_PVM_ROOT
                             /sw/Cvol/pvm3
                             SUN4SOL2
PAR PVM ARCH
PAR_PVM_WAIT_FOR_DEAMON
                             20
PAR_MPI_ROOT
                             /sw/Cvol/mpich
PAR_MPI_ARCH
                             solaris
PAR_MPI_DEVICE
                             ch_p4
PAR_MIN_CELLS_TO_SPLIT
                            10
PAR_SLAVES
                             2
```

```
# if 1, use orthogonal bisection to distribute the network
# otherwise, use the METIS graph partitioning library
# int
PAR_USE_METIS_PARTITION
PAR_USE_OB_PARTITION
PAR_PARTITION_FILE
                                /tmp/partition
PAR_SAVE_PARTITION
# if 0 use (number of lanes) for edge weight, (length * number of lanes) for edge penalty
      and 0 for node weights in the partitioning algorithm
# otherwise, use the file named in RTM_FEEDBACK_FILE and RTM_PENALTY_FACTOR.
# int
PAR_USE_RTM_FEEDBACK
# Filename for edge and node weights for partitioning
# File format is lines of the form:
# 0 Id Weight
# 1 Id Weight Penalty
# The first line sets a node weight
# the second line sets an edge weight: if penalty is -1, use current value *
RTM_PENALTY_FACTOR
                                      otherwise use Penalty * RTM_PENALTY_FACTOR
# string
PAR_RTM_FEEDBACK_FILE
                              /tmp/rtm
# See above for RTM_FEEDBACK_FILE
# float > 0.0
PAR_RTM_PENALTY_FACTOR
PAR_REPORT_OUTGOING_LINK_TIME_ONLY
```

# 2. VOLUME One (TECHNICAL OVERVIEW)

# 3. VOLUME TWO (NETWORKS AND VEHICLES)

# 3.1 Network File Configuration File Keys

Configuration File Key	Description
NET_ACTIVITY_LOCATION_TABLE	The activity location table name.
NET_ACTUATED_ALGORITHM_B_BETA	The velocity factor for actuated algorithm
	B. Default = 1.0 meters/sec
NET_ACTUATED_ALGORITHM_B_DENSITY_CONST	The density factor for actuated algorithm B.
	Default = $0.0$ /meter
NET_ACTUATED_ALGORITHM_B_FLOW_CONST	The flow factor for actuated algorithm B.
	Default = 0.1/sec
NET_BARRIER_TABLE	The barrier table name.
NET_DETECTOR_PRESENCE_SAMPLE_TIME	The presence detector sampling frequency.
	Default = 1 sec
NET_DETECTOR_RETENTION_TIME	The retention time for detections.
	Detections are retained until all interested
	signals have examined them once or for
	NET_DETECTOR_RETENTION_TIME,
	whichever is longer. Default = 0 sec (i.e.,
	cleared after used once)
NET_DETECTOR_TABLE	The detector table name.
NET_DIRECTORY	The directory where the network files
	reside.
NET_LANE_CONNECTIVITY_TABLE	The lane connectivity table name.
NET_LANE_USE_TABLE	The lane use table name.
NET_LANE_WIDTH	The default lane width (meters).
NET_LINK_MEDIAN_HALFWIDTH	The default half-width (meters) of the
	median between lanes on a link.
	To correspond with the current release of
	the Output Visualizer, this parameter must
	be assigned a value of 0.5 *
NEW LINE WADER	NET_LANE_WIDTH.
NET_LINK_TABLE	The link table name.
NET_NODE_TABLE	The node table name.
NET_PARKING_TABLE	The parking table name.
NET_PHASING_PLAN_TABLE	The phasing plan table name.
NET_POCKET_LANE_TABLE	The pocket lane table name.
NET_PROCESS_LINK_TABLE	The process link table name.
NET_SIGNAL_COORDINATOR_TABLE	The signal coordinator table name.
NET_SIGNALIZED_NODE_TABLE	The signalized node table name.
NET_SPEED_TABLE	The speed table name.
NET_STUDY_AREA_LINKS_TABLE	The study area links table name.
NET_TIMING_PLAN_TABLE	The timing plan table name.

Configuration File Key	Description
NET_TRANSIT_STOP_TABLE	The transit stop table name.
NET_TURN_PROHIBITION_TABLE	The turn prohibition table name.
NET_UNSIGNALIZED_NODE_TABLE	The unsignalized node table name.

**2** This feature is not implemented in this version.

# 3.2 Detector Defect Keys

Configuration File Key	Description
NET_DETECTOR_ACCELERATION_NOISE_c	The standard deviation of random
	error in detection acceleration
	(meters/second/second).
NET_DETECTOR_ACCELERATION_OFFSET_c	The systematic error in detection
	acceleration (meters/second/second).
NET_DETECTOR_FAILURE_TIME_MEAN_C	The mean time (seconds) between
	detector catastrophic failures. A
	value of 0 indicates no failures.
NET_DETECTOR_FALSE_ALARM_PROBABILITY_c	The probability of counting the same
	detection twice.
NET_DETECTOR_FALSE_ALARM_TIME_MEAN_C	The mean time (seconds) between
	spontaneous false alarms (i.e.,
	recording a detection when no
	vehicle was there). A value of 0
	indicates no spontaneous false
	alarms.
NET_DETECTOR_INITIAL_FAILURE_PROBABILITY_c	The probability detector is broken at
	beginning of simulation.
NET_DETECTOR_MISS_ACCELERATION_PROBABILITY_C	The probability of missing the
	acceleration component of a
	detection.
NET_DETECTOR_MISS_POSITION_PROBABILITY_c	Probability of missing the position
	component of a detection.
NET_DETECTOR_MISS_PROBABILITY_c	Probability of detector missing a
	detection.
NET_DETECTOR_MISS_VELOCITY_PROBABILITY_c	Probability of missing the velocity
	component of a detection.
NET_DETECTOR_POSITION_NOISE_c	Standard deviation of random error in
	detection position (meters).
NET_DETECTOR_POSITION_OFFSET_c	Systematic error in detection position
	(meters).
NET_DETECTOR_VELOCITY_NOISE_c	Standard deviation of random error in
	detection velocity (meters/second).
NET_DETECTOR_VELOCITY_OFFSET_c	Systematic error in detection velocity
	(meters/second).

Configuration File Key	Description
NET-DETECTOR_REPAIR_TIME_MAX_c	Maximum time (seconds) until failed
	detector is repaired. A value of 0
	indicates detector is immediately
	repaired. A value of -1 indicates no
	repair.

## 3.3 Transit File Configuration File Keys

Configuration File Key	Description
TRANSIT_ROUTE_FILE	The name of a transit route file whose format is described. Used
	as input by the Traffic Microsimulator and the Route Planner.
TRANSIT_SCHEDULE_FILE	The name of a transit schedule file whose format is described
	above. Used as input by the Route Planner.
TRANSIT_ZONE_FILE	The name of a transit zone file whose format is described above.
	Currently unused.

#### 3.4 Vehicle File Configuration File Keys

<b>Configuration File Key</b>	Description
VEHICLE_FILE	The path of the vehicle file.

## 3.5 Vehicle Prototype File Configuration File Keys

Configuration File Key	Description
VEHICLE_PROTOTYPE_FILE	The path of the vehicle prototype file.

# 4. VOLUME THREE (MODULES), CHAPTER TWO (POPULATION SYNTHESIZER)

## 4.1 Synthetic Population Configuration File Keys

Configuration File Key	Description
SYNPOP_BASE_DIRECTORY	\$TRANSIMS_HOME
SYNPOP_BASE_PREFIX	The file name prefix for the base-synthesized
	population output files. No base-year output will be
	generated if this key is blank.
SYNPOP_FORECAST_PREFIX	The file name prefix for the forecast-synthesized
	population output files. No forecast output will be
	generated if this key is blank.
SYNPOP_HOUSEHOLD_DEMOGRAPHICS	The list of household PUMS fields to be placed in
	the population output files (separated by
	semicolons). See the file
	\$TRANSIMS_HOME/data/synpop/docs/pumsusdd.t
	xt for a complete of the possible fields.
SYNPOP_KEEP_TEMP_FILES	Whether to retain the working files after the
	population synthesis is complete $(1 = yes, 0 = no)$ .
SYNPOP_MABLE_FILE	The directory in which the MABLE output file is
	stored.
SYNPOP_MARGINALS_FILE	The location of the Forecast Marginals file.
SYNPOP_PERSON_DEMOGRAPHICS	The list of person PUMS fields to be placed in the
	population output files (separated by semicolons).
	See the file
	\$TRANSIMS_HOME/data/synpop/docs/pumsusdd.t
	xt for a complete list of the possible fields.
SYNPOP_PUMAS	The list of five-digit PUMA numbers to be
	processed (separated by semicolons).
SYNPOP_PUMS_DIRECTORY	The directory in which the PUMS data are stored.
SYNPOP_RANDOM_SEED	The random number seed (integer).
SYNPOP_STATE	The two-letter abbreviation (lowercase) of the state
	of interest.
SYNPOP_STF_DATA_DIRECTORY	The directory in which the STF3A dBase files are
	located.
SYNPOP_STF_INFO_DIRECTORY	%TRANSIMS_HOME/data/synpop/Parep2/stf
SYNPOP_TEMP_DIRECTORY	The directory in which temporary working files
	will be placed.

## 4.2 BlockGroupLoc Configuration File Keys

Configuration File Key	Description
ACT_BLOCKGROUP_HEADER	The user data column header in the network activity
	location file used to specify the block group.
	Default = BG
ACT_HOME_HEADER	The user data column header in the network activity
	location file used to specify single family home
	locations. Default = HOME
ACT_MULTI_FAMILY_HEADER	The user data column header in the network activity
	location file used to specify multifamily home
	locations. If not specified, multifamily user data
	from the activity location file is ignored.
ACT_TRACT_HEADER	The user data column header in the network activity
	location file used to specify the census tract.
	Default = TRACT
NET_ACTIVITY_LOCATION_TABLE*	The network activity location table name.
NET_DIRECTORY*	The directory where the network files reside.
NET_LINK_TABLE*	The network link table name.
NET_NODE_TABLE*	The network node table name.
POP_BASELINE_FILE*	The name of the file containing the baseline
	population.
POP_LOCATED_FILE*	The name of the file where the located population
	will be written.
POP_NEAREST_BG_FILE	The name of the Tract/Block Group Substitution
	file that contains information about the nearest
	tract/block group for block groups that have no
	activity locations on the transportation network.
POP_RANDOM_SEED	The random number seed (integer).
	Default = 985456379
POP_STARTING_HH_ID	The number from which the generated households
	will be sequentially numbered. Default = 1
POP_STARTING_PERSON_ID	The number from which the generated persons will
	be sequentially numbered. Default = 101

• Configuration file keys required for *BlockGroupLoc*. All others are optional and will use default values.

# 4.3 Vehgen Configuration File Keys

Configuration File Key	Description
POP_STARTING_VEHICLE_ID	The number from which the generated vehicles will be sequentially numbered.  Default = 100
VEH_VEHICLE_TYPE	The TRANSIMS vehicle type that will be used for all generated vehicles. Must correspond to the types defined in the network in file <i>Id.h</i> .  Default = 1 (auto)
VEH_VEHICLE_SUBTYPE	An integer value to specify a vehicle subtype that can be used to partition vehicles for emissions studies. Default = 0
VEH_GENERATE_FOR_DRIVERS	Boolean value that controls the method used by the vehicle generator to produce the vehicles for a household.  Value = 1 generates a vehicle for every person in the household whose age is ≥ the value specified by the configuration file key  VEH_DRIVER_MINIMUM_AGE.  Value = 0 generates the number of vehicles as specified by the household demographics.  Default = 0
VEH_DRIVER_MINIMUM_AGE	The minimum age of a driver. Used to determine the number of persons eligible for a vehicle.  Default = 16
VEH_RANDOM_SEED	The seed for the random number stream. Default = 985456379
VEH_AGE_DEMOGRAPHIC	The header that denotes the age demographic in the population file. Default = AGE.
VEHICLE_FILE	The name of the TRANSIMS vehicle file for the population.

# 5. VOLUME THREE (MODULES), CHAPTER THREE (ACTIVITY GENERATOR)

Configuration File Key	Description
ACT_ACCESS_HEADER	The user data column header in the network
ACI_ACCESS_READER	activity location file used to specify access to
	transit.
ACT_ACTIVITY_TYPE	The activity types used by the Activity
ACI_ACIIVIII_IIFE	Generator. The base key must be followed with
	_n where n is an integer to indicate the n <sup>th</sup>
	specification of the activity type (non-negative
	1
ACT_ADJUST_ACTIVITY_TIMES	integer).
ACI_AD0051_ACIIVIII_IIME5	A control for adjusting survey activity times by
	considering the travel time between activities.  Integer values 0 and 1:
	0 = no adjustments
	,
	1 = adjust for travel time Default = 1
ACT_ANCHOR_ACTIVITY_TYPE	An activity type that will be considered an
ACI_ANCHOK_ACIIVIII_IIFE	anchor activity when determining the locations
	on a traveler's tour. The base key must be
	followed by _n where n is an integer to indicate
	· · · · · · · · · · · · · · · · · · ·
	the n <sup>th</sup> specification of anchor activity type. If
	no anchor activity types are specified, home,
	work, and school types are used as anchor
ACE AMERICANODILE MODES	activities.
ACT_AUTOMOBILE_MODE*	A mode that will be considered a personal
	automobile mode by the Activity Generator.
	Automobile modes are used to determine shared
	rides and vehicle assignments. At least one
	mode must be specified. Park-and-ride modes
	can be specified as automobile modes in the Activity Generator.
ACT BICYCLE MODE	The number of the bicycle mode (wiw) (integer).
ACT_BLOCKGROUP_HEADER	The user data column header in the network
ACI_DEOCROROUI_HEADER	activity location file used to specify block group.
ACT_DECISION_TREE_FILE	The name of the file containing the regression
ACI_DECISION_IREE_FILE	tree for the Activity Generator.
ACT DEFAULT CAR SPEED	The default speed for automobiles in
1101_55111011_6111_51 555	meters/second (floating-point number).
	Default = 15.0
ACT_DEFAULT_INTRAZONE_DISTANCE	The average distance, in meters, of a trip within
1101_JII 11011_III 1IGAONE_DIOTANCE	a zone.
ACT_DEFAULT_TRANSIT_MODE	The number of the default transit mode (wtw)
	(integer).
ACT_DEFAULT_TRANSIT_SPEED	The default transit speed in meters/second
	(floating-point number). Default = 10.0
	(Hoading-point number). Detault – 10.0

Configuration File Key	Description
ACT_END_OF_DAY_TIME_RANGE	The time range in hours for lower and upper
	bounds of start and end times for the end-of-day
	activity (positive floating-point number).
	Default = 0.75
ACT_HOME_ACTIVITY_TYPE	The number of the home activity type (non-
	negative integer).
ACT_HOME_DURING_DAY_TIME_RANGE	The time range in hours for lower and upper
	bounds of start and end times for non-work
	activities originating at home (positive floating-
	point number). Default = 0.75
ACT_HOME_HEADER	The user data column header in the network
	activity location file used to specify single
3 2 110112 1101	family home locations.
ACT_HOUSEHOLD_FILE	The name of a file containing a list of household
	Ids from the synthetic population for which
	activities will be generated. Activities will be
	generated only for those households on the list. This key is optional and if not specified,
	activities will be generated for all households in
	the population (ACT_POPULATION_FILE).
ACT INITIAL HOME TIME RANGE	The time range in hours for lower and upper
	bounds of start and end times for the initial at-
	home activity (positive floating-point number).
	Default = 0.75
ACT_LOCATION_CHOICE_EXPONENT	The power to which the exponential function in
	the location choice algorithm will be raised.
	Floating-point value. Default – 1.0
ACT_LOCATION_HEADER	The header for the activity type for activity
	locations in the network activity location table.
	The headers must correspond to the activity
	types defined with the ACT_ACTIVITY_TYPE_n
	keys. The base key must be followed with _n
	where n is an integer to indicate the n <sup>th</sup>
	specification of the header.
ACT_LOG_FILE	The name of the logfile for the Activity
	Generator and Regenerator.
	Default = ActivityGenerator.log
ACT_MAGIC_MOVE_MODE	The number of the magic move mode (wkw)
	(integer).
ACT_MAX_END_TIME*	The maximum end time for an activity in hours
	past midnight on the starting day (positive
ACE MINIMIN ADJUG ACE	floating-point number). Default = 24.0
ACT_MINIMUM_ADULT_AGE	The minimum age for an adult in years. Persons
	younger than this value will be considered
	children when matching synthetic households
	with survey households in the activity generator.  Default = 16
	Delauit – 10

Configuration File Key	Description
ACT_MODE_WEIGHT_FILE	The name of the file containing mode
	coefficients for the activity types. This must
	contain a coefficient for every mode and activity
	type.
ACT_MULTI_FAMILY_HEADER	The user data column header in the network
	activity location file used to specify multifamily
	home locations.
ACT_OUT_OF_HOME_TIME_RANGE	The time range in hours for lower and upper
	bounds of start and end times for non-work
	activities that do not originate at home (positive
	floating-point number). Default = 0.75
ACT_PERSON_DEMOG_AGE_HEADER	The name of the age demographic header for the
	persons in the population used by the Activity
	Generator.
ACT_PERSON_DEMOG_GENDER_HEADER	The name of the gender demographic header for
	the persons in the population used by the
	Activity Generator.
ACT_PERSON_DEMOG_RELATION_HEADER	The name of the relationship demographic
	header for the persons in the population used by
AGE DEDGOV DEWOG MODIVED WEADER	the Activity Generator.
ACT_PERSON_DEMOG_WORKER_HEADER	The name of the worker demographic header for
	the persons in the population used by the
ACE DODIII AETON ETTE	Activity Generator.
ACT_POPULATION_FILE	The name of the file containing a located
	synthetic population with household and person
	demographics that exactly match the variables in the Activity Generator regression tree. This file
	is output from the population converter program.
ACT_PRIORITY*	The priority for the activity type. The priorities
	must correspond to the activity types defined
	with the ACT_ACTIVITY_TYPE_n configuration
	file keys. The base key must be followed with
	_n where n is an integer to indicate the n <sup>th</sup>
	specification of the priority.
	Defaults = work activity type 2
	school activity type 3
	home activity type 1
	all other activity types 7
ACT_PROBLEM_FILE	The name of the file where information about
	problems that occurred during activity
	generation will be written.
	Default = act.problems
ACT_RANDOM_SEED	The random number seed used by activity
	generators.

Configuration File Key	Description
ACT_REQUIRED_HH_DEMOG	The required household demographics in the
	synthetic population used by the Activity
	Generator. The base key must be followed with
	_n where n is an integer to indicate the n <sup>th</sup>
	specification of required demographics. The
	demographics must exactly match and be
	ordered the same $(1 - n)$ as the demographic
	variables in the Activity Generator's regression
	tree.
ACT_SCHOOL_ACTIVITY_TYPE	The number of the school activity type (non-
	negative integer).
ACT_SCHOOL_LOCATION_ATTRACTOR_VALUE	The value of the activity location attractor for
	the school activity type. The base key must be
	followed by _n where n is an integer to indicate
	the n <sup>th</sup> specification of the activity location
	attractor value. The specifications should be
	linked to the school age ranges specified. If no
	school activity location attractor values are
	specified, the activity location attractors for the
	school activity type are used as weights.
ACT_SCHOOL_LOWER_BOUND	The lower bound of a school age range. The
	base key must be followed by _n where n is an
	integer to indicate the n <sup>th</sup> specification of the
	school age range lower bound.
ACT_SCHOOL_UPPER_BOUND	The upper bound of a school age range. The
	base key must be followed by _n where n is an
	integer to indicate the n <sup>th</sup> specification of the
	school age range upper bound.
ACT_SCHOOL_ZONE_ATTRACTOR_VALUE	The value of the zone attractor for the school
	activity type. The base key must be followed by
	_n where n is an integer to indicate the n <sup>th</sup>
	specification of the zone attractor value. The
	specifications should be linked to the school age
	ranges specified. If no school zone attractor
	values are specified, the zone attractors for the
	school activity type are used as weights.
ACT_SHARED_RIDE_DISTANCE_RANGE*	The distance range in meters for matching
	activity locations for shared rides.
	Default = 10
ACT_SHARED_RIDE_TIME_RANGE_MAX*	The maximum time range in minutes for
	matching activities for shared rides.
	Default = 1
ACT_SHARED_RIDE_TIME_RANGE_MEDIUM	Medium time range in minutes for matching
	shared rides.
	Default = 1
ACT_SHARED_RIDE_TIME_RANGE_MIN*	The minimum time range in minutes for
	matching activities for shared rides.
	Default = 1

Configuration File Key	Description
ACT_SURVEY_ACTIVITY_FILE	The name of the file containing activity patterns
	for the survey households.
ACT_SURVEY_HOUSEHOLD_FILE	The name of the file containing the survey
	household population and demographics.
ACT_SURVEY_WEIGHTS_FILE	The name of the file containing the relative
	weights of the survey households.
ACT_TAZ_HEADER	The user data column header in the network
	activity location file used to specify traffic
	analysis zone.
ACT_TIME_PRIORITY*	Specifies time priority for the activity type. The
	time priorities must correspond to the activity
	types defined with the ACT_ACTIVITY_TYPE_n
	configuration file keys. The base key must be
	followed with _n where n is an integer to
	indicate the n <sup>th</sup> specification of the time
	priority. The allowed values of the time priority
	configuration file keys are described in
	Appendix A (Field Activity Time Priority).
	Defaults = work activity type 3
	school activity type 3
	home activity type 0
	all other activity types 0
ACT_TRACT_HEADER	The user data column header in the network
	activity location file used to specify census tract.
ACT_TRAVEL_TIMES_FILE	The name of the file containing travel time
	information between zones.
ACT_TRAVEL_TIME_FILE_MODES	Specifies the modes where the travel time will
	be determined from the travel times file. Modes
	are specified as a semicolon-separated list of
	integer mode values. This key is optional and if
	not specified and a travel time file is specified
	(ACT_TRAVEL_TIMES_FILE), the Activity
	Generator will look for all modes in the travel
	times file.
	Example: ACT_TRAVEL_TIME_FILE_MODES 1;3;7
ACT_TRAVEL_TIME_INTERVALS_FILE	The file containing travel time interval
	information.
ACT_USER_FUNCTION_MODES	Specifies the modes for which the user function
	is valid. Modes are specified as a semicolon-
	separated list of integer mode values.
	Example:
	ACT_USER_FUNCTION_MODES 1;2;9
<u> </u>	_ <del>_</del>

Configuration File Key	Description
ACT_USER_FUNCTION_PARAMETERS	Specifies the optional parameters to the user
	function. Parameters are specified as a
	semicolon-separated list of floating-point values.
	If specified, the floating-point values are passed
	into the user function as a vector of doubles.
	Example:
	ACT_USER_FUNCTION_PARAMETERS 0.2;4.1;00025
ACT_USER_FUNCTION_STRING_PARAMETERS	Specifies the optional user-defined string
	parameters to the user function. Parameters are
	specified as a semicolon-separated list of string
	values. If specified, the string values are passed
	into the user function as a vector of strings.
	String values must not contain whitespace.
	Example:
	ACT USER FUNCTION STRING PARAMETERS
AGE LIGHT HINGETON GUADED OF THOSE	/usr/transims/data/data.1; transit_only;bridge_crossing
ACT_USER_FUNCTION_SHARED_OBJECT	Specifies the full path name of the shared object
	that contains the user function. If specified, the
	user function object is loaded at runtime and will
	be used in the location choice models for all
	modes specified by the
	ACT_USER_FUNCTION_MODES configuration
	file key.
	Example:
	ACT_USER_FUNCTION_SHARED_OBJECT /usr/transims/work/UserZoneFunction.o
ACT_USER_FUNCTION_NAME	Specifies the name of the user-defined function
	in the shared object specified by
	ACT_USER_FUNCTION_SHARED_OBJECT.
	Default value = <i>UserZoneFunction</i>
ACT_WALKING_MODE	The number of the walking mode (w) (integer).
ACT_WORK_ACTIVITY_TYPE	The number of the work activity type (non-
	negative integer).
ACT_WORK_HEADER	The user data column header in the network
	activity location file used to specify work
	locations.
ACT_WORK_TIME_RANGE	The time range in hours for lower and upper
	bounds of start and end times for work activities
	(positive floating-point number). Default = 0.25
ACT_ZONE_HEADER	Used to specify the header for the zone
	attractors, which must match the activity types
	(ACT_ACTIVITY_TYPE_n). The base key must
	be followed with _n where n is an integer to
	indicate the n <sup>th</sup> specification of the header.
ACT_ZONE_INFO_FILE	The name of the file containing zone attractor
	data by activity type for the Activity Generator.
ACTIVITY_FILE	The name of the TRANSIMS activity file for the
_	household.
NET_ACTIVITY_LOCATION_TABLE	The network activity location table name.
NET_DIRECTORY	The directory where the network files reside.
<u> </u>	The anteriory where the network files reside.

Configuration File Key	Description
NET_LINK_TABLE	The network link table name.
NET_NODE_TABLE	The network node table name.
ROUTER_BIKING_SPEED	The approximate speed in meters/second for bicycles.
ROUTER_WALKING_SPEED	The approximate speed in meters/second for walking trips.
VEHICLE_FILE	The name of the TRANSIMS vehicle file for the population.

• These keys are optional.

## 5.1 Activity Regenerator Configuration File Keys

Configuration File Key	Description
ACT_FEEDBACK_FILE	The file containing a list of travelers and associated commands
	for activity regeneration.
ACT_PARTIAL_OUTPUT	The name of the file that will be output from partial
	regeneration of activities.

## 5.2 Population Converter Configuration File Keys

Configuration File Key	Description
ACT_HHDENSITY_HEADER	The column header of the household density values in the
	network activity location tables.
ACT_POPULATION_FILE	The name of the file containing a located synthetic population
	with household and person demographics that exactly match the
	variables in the Activity Generator regression tree. This file is
	output from the Population Converter program.
POP_LOCATED_FILE	The name of the file containing the located population.

## 5.3 Trip Table Activity Generator Configuration File Keys

Configuration File Key	Description
ACT_HOME_ACTIVITY_TYPE	The number of the home activity type. Non-
	negative integer. Default = 1
ACT_MAX_END_TIME*	The maximum end time for an activity in hours
	past midnight on the starting day (positive
	floating-point number). Default = 24.0
ACT_RANDOM_SEED	The seed for the random number system.
ACT_TAZ_HEADER*	The column header in the network activity
	location file that contains the zone information.
	Default = TAZ
ACT_TRIP_TABLE_OUTPUT*	The name of the activity file that will be output
	from the Trip Table Activity Generator.
ACT_TRIP_TABLE_VEHICLE_FILE	The name of the vehicle file that will be output
	from the Trip Table Activity Generator.
ACT_TRIPTABLE_DESTINATION_ATTRACTOR_HEADER	The column header in the network activity
	location file for the location attractor for the
	origin of trips generated using trip tables.
ACT_TRIPTABLE_FILE	The name of the file containing the trip table
	matrix.
ACT_TRIPTABLE_ORIGIN_ATTRACTOR_HEADER	The column header in the network activity
	location file for the location attractor for the
	origin of trips generated using trip tables.
ACT_TRIPTABLE_STARTING_HH_ID*	The starting household ID for households
	generated from trip table matrices. Default = 1
ACT_TRIPTABLE_STARTING_PERSON_ID*	The starting person ID for travelers generated
	from trip table matrices. Default = 1
ACT_TRIPTABLE_STARTING_VEHICLE_ID*	The starting vehicle ID for vehicles generator
	from trip table matrices. Default = 1
ACT_TRIPTIME_FILE	The name of the file containing the time of day
	trip table data.
ACT_WORK_ACTIVITY_TYPE*	The number of the work activity type. Non-
	negative integer. Default = 2
MODE_MAP_FILE	The file containing mapping between mode
	strings and integer values. The string "wcw" must
NEW ACRIVITY LOCATION MADIE	be in this file.
NET_ACTIVITY_LOCATION_TABLE	The network activity location table. Must contain
	a column that has the zone number for the activity locations.
NET_DIRECTORY	The directory where the network tables reside.
NET_LINK_TABLE	The network link table.
NET_NODE_TABLE	The network node table.
NET_PARKING_TABLE	The network parking table.
NET_PROCESS_LINK_TABLE	The network process link table.
NET_TRANSIT_STOP_TABLE	The network transit stop table (may be an empty
	table).

Configuration File Key	Description
POP_TRIPTABLE_FILE	The name of the population file that will be
	output from the trip table activity generator.
VEH_VEHICLE_SUBTYPE*	The subtype of the vehicle fleet will be generated.
	Default = 0
VEH_VEHICLE_TYPE*	The type of vehicles that will be generated.
	Default value is assigned from a type
	enumeration in the TRANSIMS Network = 1
	(kAuto).

• Optional configuration file keys. If not specified, will use default values.

# 6. VOLUME THREE (MODULES), CHAPTER FOUR (ROUTE PLANNER)

## 6.1 Route Planner File Configuration Keys

Configuration File Key	Description
ACTIVITY_FILE*	Path to a TRANSIMS activity file.
LOG_ROUTING	Turn on Route Planner logging. This produces
	information about the status and progress of the
	Route Planner. Default = 0
LOG_ROUTING_DETAIL	Turn on detailed Route Planner logging. Produces
	many messages. Default = $0$ .
MODE_MAP_FILE*	Path to a mode file.
PLAN_FILE*	Name of the file where plans should be written.
	(Overwrites an existing file.)
ROUTER_BIKING_SPEED	Speed to use when computing delays for walk
	links traversed by bicycle (meters/second).
	Default = 4.0
ROUTER_CORR	Floating-point number, between 0 and 1. The
	Route Planner will change the reported length of
	a link to be equal to its Euclidean length
	whenever the ratio of the two is less than this value. This is done in order to avoid problems
	when the Sedgewick-Vitter heuristic is used.
	Default = 0.0
ROUTER_DELAY_NOISE	Percentage of noise to add to link delays.
	Default = 0
ROUTER_DEPENDENT_HOUSEHOLD_FILE	File containing a list of household Ids per line that
	have shared rides in common.
ROUTER_DISPLAY_PATHS	If set to 1, list all of the nodes for each leg
	planned. Note: This produces large amounts of
	output.
ROUTER_FILTER_EXCLUDE_MODE	Plan modes not include in plan file. Default it to
	include no modes. Only one of INCLUDE_MODE
	and EXCLUDE_MODE may be specified.
ROUTER_FILTER_EXCLUDE_VEHICLE	Plan vehicle types not to include in plan file.
	Default is to include no vehicle types. Only one
	of INCLUDE_VEHICLE and
	EXCLUDE_VEHICLE can be specified.
ROUTER_FILTER_INCLUDE_MODE	Plan modes to include in plan file. Default is to
	include all modes.
ROUTER_FILTER_INCLUDE_VEHICLE	Plan vehicle types to include in plan file. Default
	is to include all vehicle types.
ROUTER_GET_OFF_TRANSIT_DELAY	Delay encountered when exiting a transit vehicle.
	Default = 4 seconds

Configuration File Key	Description
ROUTER_GET_ON_TRANSIT_DELAY	Delay encountered when boarding a transit
	vehicle.
	Default = 3 seconds
ROUTER_HOUSEHOLD_FILE	Path to a file containing a list of integer Ids for
	householders to be planned.
ROUTER_INCLUDE_WALK_PLAN_NODES	Include node list in walk plans.
ROUTER_INTERNAL_PLAN_SIZE	Positive integer. Should be enough to
	accommodate the length (in number of nodes) of
	the shortest path between any two nodes in the
	network (and may need to be quite large when
	multimodal plans are used). Default = 400
ROUTER_LINK_DELAY_FILE	Feedback file from which to read link delays. If
	the configuration file key is not present or the file
	does not exist, the free speed delays are used.
ROUTER_LINK_DELAY_MIN_COUNT	Minimum count in link delay file to include data
	in link delay calculations.
ROUTER_LINK_DELAY_MIN_VCOUNT	Minimum vocunt in link delay file to include
	data in link delay calculations.
ROUTER_MAX_LEG_LENGTH	The maximum time (in seconds) of an individual
	leg. Default = 7200 seconds
ROUTER_MAX_NODES_EXAMINED	Maximum number of nodes examined before the
	Router Planner will conclude that no path exists.
	Useful mostly for large networks. Default =
	400,000
ROUTER_MAX_TRIP_TIME	If, while in the process of creating a route, the
	partial route extends past
	ROUTER_MAX_TRIP_TIME (specified in
	seconds), the trip is aborted.
DOLLER MEGGAGE LEVEL	Default = 97200 (27 hours)
ROUTER_MESSAGE_LEVEL	Level of warning messages to produce:
	-2 (ERROR)
	-1 (PRINT)
	0 (SEVERE WARNING)
	1 (WARNING).
	Produces information about possible anomalies
DOLIMED NUMBER MUSEUS	the Route Planner has encountered. Default = 1
ROUTER_NUMBER_THREADS	Positive integer. Number of worker threads to be
	used. A value of 0 means no threads will be used.
	Default = 0

Configuration File Key	Description
ROUTER_OVERDO	Non-negative floating-point number. If set to 0,
	no adjustment is made to the distance estimates. If
	positive, the search for the shortest path to the
	origin will be biased in the direction of a straight
	line to the destination. This will produce non-
	optimal paths. The paths will still be reasonable,
	but the heuristic may cause relatively small
	congestion on links to be ignored, and this can
	break the iterative relaxation mechanism.
	Default = 0.0
ROUTER_PROBLEM_FILE*	Path name to a file in which activities with
	anomalies identified by the Route Planner are
DOLUMED CHED	written.
ROUTER_SEED	Seed to use for random number generator.
	If the configuration file key is set to 0, use
DOLUMED WALKING COURT	process ID. Default = 0
ROUTER_WALKING_SPEED	Speed to use when computing delays for walk
DOLLER DESTRE DI ANG	links (meters/second). Default = 1.0
ROUTER_RETIME_PLANS	File containing plans of retimed travelers.
ROUTER_RETIME_TRAVELER_FILE	File containing traveler IDs of travelers to be
DOLUMB DESIGNATIONS	retimed.
ROUTER_RETIME_MODES	File containing modes to be retimed.
ROUTER_COMPLETED_HOUSEHOLD_FILE	File containing household IDs for plans that have
	been written to the household file.
TRANSIT_ROUTE_FILE	File containing route of transit vehicles.
TRANSIT_SCHEDULE_FILE	File containing schedules of transit vehicles.
ROUTER_TIME_REPORT_INTERVAL	Defines how often to report routing speed.
	0 = never report
VEHICLE_FILE*	Path to a TRANSIMS vehicle file.

<sup>\*</sup>Required.

# 6.2 Plan File Configuration File Keys

Configuration File Key	Description
CA_USE_PARTITIONED_ROUTE_FILES	If this configuration file key is set, the Traffic
	Microsimulator expects to find separate indexes
	into a plan file for each slave. These can be
	produced using a partition file and the
	DistributePlans utility.
PLAN_FILE	Location of a file containing plans, or the base
	name of an index that points to plan files.
	Used by the Route Planner for output and the
	Traffic Microsimulator and Selector/Iteration
	Database for input.

# 7. VOLUME THREE (MODULES), CHAPTER FIVE (TRAFFIC MICROSIMULATOR)

## 7.1 Traffic Microsimulator Configuration File Keys

Configuration File Key	Description
CA_BROADCAST_ACC_CPN_MAP CA_BROADCAST_TRAVELERS	If Broadcast Travelers is set, migrating travelers are
CA_BROADCASI_IRAVELERS	broadcast to every CPU. Because only one CPU will eventually make use of the traveler, this is inefficient. If Broadcast
	Acc CPN Map is set, each CPU knows which CPU is
	associated with every accessory, so traveler migration messages
	can be targeted to only the single CPU that needs them. If the CPN Map is not broadcast, travelers must be broadcast.
CA_DECELERATION_PROBABILITY	To enhance traffic variation, each automobile driver randomly
	decides whether to decelerate for no apparent reason at each
	timestep. The probability of decelerating is a value in the range $0.0$ to $1.0$ . Default = $0.2$
CA_ENTER_TRANSIT_DELAY	These keys specify the mean number of timesteps it takes for a
CA_EXIT_TRANSIT_DELAY	single traveler to enter or exit a transit vehicle.
CA_GAP_VELOCITY_FACTOR	At unsignalized intersections and during protected movements at signalized intersections, drivers wait for a suitable gap in cross traffic before proceeding through the intersection. The number of empty cells in a suitable gap is based on the speed of the cross traffic and the gap velocity factor. The suitable gap is calculated for each lane of the cross traffic.
	Gap = Speed of Oncoming Vehicle * Gap Velocity Factor
	The gap velocity factor must be greater than 0.0. The default value is 3.0. Note that vehicles with a speed of 0 result in a suitable gap size of 0, which improves traffic flow in congested conditions.
CA_IGNORE_GAP_PROBABILITY	Drivers at unsignalized intersections wait for a suitable gap in cross traffic before proceeding through the intersection.  Allowing each driver to ignore the gap constraint with some probability prevents the deadlock that would take place when vehicles are waiting for each other at multiway stop/yield signs. The probability that the drivers at multiway stop/yield signs will ignore the constraint is a value in the range of 0.0 to 1.0. Default = 0.66
CA_INTERSECTION_CAPACITY	Intersection Capacity determines the number of
CA_INTERSECTION_WAIT_TIME	vehicles that can be held by each intersection's buffers.  Intersection Wait Time specifies the number of
CT_TIVIDIOTCTTON_WATT_TIME	seconds that a vehicle requires to pass through a signalized
	intersection. A vehicle resides in an intersection-queued buffer
	for this amount of time and is then placed on the next link if the
	first cell on that link is unoccupied. It will remain in the intersection for a longer time if entry to the next link is blocked by another vehicle. Velid velves are positive.
	by another vehicle. Valid values are positive.  Default = 1 second

Configuration File Key	Description
CA_LANE_CHANGE_PROBABILITY	Variation in traffic is reduced by not allowing every driver who would change lanes based on vehicle speed and gaps in the traffic to do so at each timestep. This is done to prevent <i>lane hopping</i> . The probability that a driver will change lanes when speed and gaps permit is a value in the range of 0.0 to 1.0. Default = 0.99
CA_LATE_BOUNDARY_RECEPTION	If Late Boundary Reception is set, the simulation will try to overlap computation and communication.
CA_LONG_SOAK_TIME	The boundary (in seconds) between medium and long soak times for energy output. Default = 9000
CA_LOOK_AHEAD_CELLS	The preferred lane for a vehicle to be in as it approaches an intersection depends on the connectivity from the current link to the next link in the plan. In some situations, it is advantageous for the driver to look beyond the next link to subsequent links in the plan when deciding the preferred lane. Look Ahead Cells controls how far ahead the driver will look. A value of 0 indicates that the driver will not look beyond the next link. A positive value indicates that the driver will look at least one additional step beyond the next step in the plan. The number of additional links considered is determined by the lengths of the subsequent links, with link lengths being summed until the accumulated distance is greater than or equal to Look Ahead Cells. Valid values are positive or zero. Default = 35 cells
CA_MAX_WAITING_SECONDS	Max Waiting Seconds determines the number of seconds that a vehicle will try to enter an intersection. If the vehicle has not moved from the link into or through the intersection in Max Waiting Seconds, the vehicle abandons its plan and tries an alternative movement through the intersection (if one exists). Max Waiting Seconds must be > 0 and should be greater than the longest red phase of the traffic controls in the simulation. Default = 600 seconds
CA_MEDIUM_SOAK_TIME	The boundary (in seconds) between short and medium soak times for energy output. Default = 1800 seconds
CA_NO_TRANSIT	If this flag is set, travelers whose plans originate or end at a transit stop are removed from the simulation. None of their remaining legs are used. (The transit driver plans do not fall into this category, thus transit vehicles can still be present in the simulation, but no passengers will use them.)
CA_OFF_PLAN_EXIT_TIME	Off Plan Exit Time specifies the number of seconds a vehicle is allowed to deviate from its plan before being removed from the simulation. This prevents off-plan vehicles from wandering on the transportation network. Valid values are positive. Default = 1 second

Configuration File Vov	Description
Configuration File Key	Description
CA_PLAN_FOLLOWING_CELLS	Plan Following Cells specifies a count of the number of cells preceding the intersection within which a vehicle will make lane changes to get in an appropriate lane and thus transition to the next link in its plan. Beyond this distance, lane-
	changing decisions are based only on vehicle speed and gaps in the traffic. Within this distance, the lane required by the vehicle's plan is also taken into account. As the vehicle nears the intersection, the bias to be in the lane required to stay on plan is increased. Valid values are positive or zero.
	Default = 70 cells
CA_RANDOM_SEED1 CA_RANDOM_SEED2 CA_RANDOM_SEED3	These three values are combined to initialize the random number generator. Note that the actual sequence of random numbers generated on a slave also depends on the number of slaves and the partitioning in general.
CA_SHORT_SOAK_TIME	The boundary (in seconds) between negligible and short soak times for energy output. Default = 600 seconds
CA_SEQUENCE_LENGTH	The slaves are implicitly synchronized among themselves by the actions of passing boundaries and migrating vehicles. They are also explicitly synchronized by the master every Sequence Length timestep. It may be more efficient to allow the implicit synchronization to control the simulation.
CA_SIM_START_HOUR CA_SIM_START_MINUTE	These values are combined to calculate the simulation's starting time. Plans whose estimated arrival time is before the start time
CA_SIM_START_SECOND	are not executed.
CA_SIM_STEPS	The simulation executes Sim Steps timesteps before exiting.
CA_SLAVE_MESSAGE_LEVEL CA_MASTER_MESSAGE_LEVEL	Only warning messages whose severity is at least as high as Message Level will be written to the master or slave log file.
CA_SLAVE_PRINT_MASK CA_MASTER_PRINT_MASK	These variables control which logging messages to ignore.  They are code set within the code based on the values of the LOG_ configuration file keys and should not be set directly.
CA_TRANSIT_INITIAL_WAIT	Transit Initial Wait specifies the number of timesteps a transit vehicle must be present at a transit stop before any passengers get on or off.
CA_USE_NETWORK_CACHE	If set, use a cached binary representation of the network. This representation would have been created by a prior run of the simulation.
CA_USE_PARTITIONED_ROUTE_FIL ES	It is more efficient for slaves to read only those plans that start in the part of the network for which they are responsible. If the partitioning to be used by the simulation is available (for example, from a prior run of the simulation), the <i>DistributePlans</i> utility will create a separate pair of indexes for each slave into one common plan file. If Use
	Partitioned Route Files is set, the slaves will look for these slave-specific indexes. If they do not exist, the simulation will fall back to using a single global pair of indexes.
CA_USE_ROMIO_FOR_OUTPUT	If Use Romio For Output is set, and the executable was compiled with the USE_ROMIO and USE_MPI flags defined, the parallel output system will use ROMIO files instead of Unix files.
PAR_HOST_COUNT	The number of distinct machines that make up the parallel machine environment.

Configuration File Key	Description
PAR_HOST_I PAR_HOST_CPUS_I PAR_HOST_SPEED_I	These variables describe the parallel machine environment to the simulation. There should be one set of these three variables, with I replaced by an integer from 0 to the value of PAR_HOST_COUNT - 1, for each host. Host should be a string containing the name of the machine. Host CPUs should give the number of CPUs available for use on the machine. Host Speed should give the relative speeds of the different machines in arbitrary units. The sum of all the values of Host CPUs must be at least one larger than the number of slaves requested.
PAR_RTM_INPUT_FILE RTM_FEEDBACK_FILE RTM_SAMPLE_INTERVAL PAR_RTM_PENALTY_FACTOR	The partitioning algorithms try to find the partition that spreads the computation associated with nodes and links evenly while simultaneously trying to minimize the communication costs associated with split links. The costs for each node and link can be estimated using run time costs from prior runs. These costs are sampled at the interval defined by RTM Sampling Interval and written out to the file named by RTM File. They are read in from the file found in the directory named by OUTPUT_DIRECTORY.
PAR_SLAVES	This key sets the number of slave processes to spawn. It must be smaller than the number of host CPUs available (to allow one process for the master).
PLAN_FILE	The plan file specifies the name of the file in which plans reside or a string to which .tim.idx and .trv.idx can be appended to find the time-sorted and traveler-id-sorted indexes into a plan file(s). The plans should include all travelers; for example, plans created by the Route Planner, transit driver plans, freight plans, etc. The name should be given as an absolute path name because the slave executables are not always run from the current working directory.
VEHICLE_FILE	The vehicle file specifies the name in which vehicles reside or a string to which .veh.idx can be appended to find the vehicle-id-sorted index into a vehicle file(s). The vehicle file must include all vehicles to be used in the simulation.
VEHICLE_PROTOTYPE_FILE	The vehicle prototype file must include information about every vehicle type used in the simulation.

## 7.2 Configuration File Keys for Snapshot Output

Configuration File Key	Description
OUT_SNAPSHOT_BEGIN_TIME_n	The first time (in seconds from the midnight before simulation start) at which to collect data.
OUT_SNAPSHOT_END_TIME_n	The last time (in seconds from the midnight before simulation start) at which to collect data.
OUT_SNAPSHOT_FILTER_n	The list of expressions (where each expression has the form FIELD OPERATOR VALUE and multiple expressions are separated by semicolons) for filtering records. Valid values for FIELD are found in Tables 3-5,
OUT_SNAPSHOT_LINKS_n	and values for OPERATOR are found in Table 12.  The path of the link specification (described in Table 11).
OUT_SNAPSHOT_NAME_n	The file name for snapshot output.
OUT_SNAPSHOT_NODES_n	The path of the node specification (described in Table 10).
OUT_SNAPSHOT_SUPPRESS_n	The list of fields (separated by semicolons) not to include in the output file.
OUT_SNAPSHOT_TIME_STEP_n	The frequency (in seconds) at which to report data (i.e., write it to disk).
OUT_SNAPSHOT_TYPE_n	The types of snapshot output to collect (separated by semicolons) permissible values are VEHICLE; INTERSECTION; SIGNAL.

# 7.3 Configuration File Keys for Event Output

Configuration File Key	Description
OUT_EVENT_BEGIN_TIME_n	The first time (in seconds from the midnight before
	simulation start) at which to collect data.
OUT_EVENT_END_TIME_n	The last time (in seconds from the midnight before simulation
	start) at which to collect data.
OUT_EVENT_FILTER_n	The list of expressions (where each expression has the form
	FIELD OPERATOR VALUE and multiple expressions are
	separated by semicolons) for filtering records. Valid values
	for FIELD are found in Table 2, and values for OPERATOR
	are found in Table 12. Valid values for VALUE must be
	expressed in decimal notation (not hexadecimal).
	The file name for event output.
OUT_EVENT_NAME_n	
OUT_EVENT_SUPPRESS_n	The list of fields (separated by semicolons) not to include in
	the output file.

Configuration File Key	Description
OUT_EVENT_TYPE_n	The types of event output to collect permissible value is
	TRAVELER.

# 7.4 Configuration File Keys for Summary Output

Configuration File Key	Description
OUT_SUMMARY_BEGIN_TIME_n	The first time (in seconds from the midnight
	before simulation start) at which to collect data.
OUT_SUMMARY_BOX_LENGTH_n	The length of the boxes (in meters).
OUT_SUMMARY_END_TIME_n	The last time (in seconds from the midnight
	before simulation start) at which to collect data.
OUT_SUMMARY_ENERGY_BINS_n	The number of bins used to cover the range of
	the energy histogram.
OUT_SUMMARY_ENERGY_MAX_n	The maximum energy in the energy histogram.
OUT_SUMMARY_ENERGY_SOAK_n	The single value specifying the soak time for
	which to collect energy data. Permissible
	values are NEGLIGIBLE; SHORT; MEDIUM;
	or LONG. If a key is not specified, all soak
	times are included in the energy output.
OUT_SUMMARY_FILTER_n	The list of expressions (where each expression
	has the form FIELD OPERATOR VALUE and
	multiple expressions are separated by
	semicolons) for filtering records. Valid values
	for FIELD are found in Tables 6-9, and values
	for OPERATOR are found in Error!
	Reference source not found.
OUT_SUMMARY_LINKS_n	The path of the link specification file
	(described in Table 11).
	The file name for summary output.
OUT_SUMMARY_NAME_n	
OUT_SUMMARY_SAMPLE_TIME_n	The frequency (in seconds) at which to
	accumulate data.
OUT_SUMMARY_SUPPRESS_n	The list of fields (separated by semicolons) not
	to include in the output file.
OUT_SUMMARY_TIME_STEP_n	The frequency (in seconds) at which to report
	data (i.e., write it to disk).
	The types of summary output to collect
OUT_SUMMARY_TYPE_n	(separated by semicolons) permissible values
	are DENSITY; TIME; VELOCITY; or
	ENERGY.

Configuration File Key	Description
OUT_SUMMARY_VEHICLE_TYPE_n	The vehicle type and subtype (separated by colon) for which to collect velocity data. If subtype is zero or not specified, data for all
	subtypes of type will be included in the velocity output. If key is not specified, all vehicle types will be included in the velocity output.
OUT_SUMMARY_VELOCITY_BINS_n	The number of bins used to cover the range of the velocity histogram (in meters/second).
OUT_SUMMARY_VELOCITY_MAX_n	The maximum velocity in the velocity histogram (in meters/second).

# 7.5 Default Output Configuration File Keys

Configuration File Key	Description
OUT_BEGIN_TIME_DEFAULT	The first time (in seconds from the midnight
	before simulation start) at which to collect data.
OUT_END_TIME_DEFAULT	The last time (in seconds from the midnight
	before simulation start) at which to collect data.
OUT_EVENT_FILTER_DEFAULT	The list of expressions (of the form FIELD;
	OPERATOR; VALUE; — separated by
	semicolons) for filtering event records.
OUT_EVENT_SUPPRESS_DEFAULT	The list of fields (separated by semicolons) not to
	include in the event output file.
OUT_LINKS_DEFAULT	The path of the link specification file.
OUT_NODES_DEFAULT	The path of the node specification file.
OUT_SNAPSHOT_FILTER_DEFAULT	The list of expressions (of the form FIELD;
	OPERATOR; VALUE; — separated by
	semicolons) for filtering snapshot records.
OUT_SNAPSHOT_SUPPRESS_DEFAULT	The list of fields (separated by semicolons) not to
	include in the snapshot output file.
OUT_SNAPSHOT_TIME_STEP_DEFAULT	The frequency (in seconds) at which to report
	snapshot data (i.e., write it to disk).
OUT_SUMMARY_BOX_LENGTH_DEFAULT	The length of the summary data boxes (in
	meters).
OUT_SUMMARY_ENERGY_BINS_DEFAULT	The number of bins used to cover the range of the
	energy summary histogram.
OUT_SUMMARY_ENERGY_MAX_DEFAULT	The maximum energy in the energy histogram (in
	cells-squared per second-squared).
OUT_SUMMARY_FILTER_DEFAULT	The list of expressions (of the form FIELD;
	OPERATOR; VALUE; — separated by
	semicolons0 for filtering summary records.
OUT_SUMMARY_SAMPLE_TIME_DEFAULT	The frequency (in seconds) at which to
	accumulate summary data.

Configuration File Key	Description
OUT_SUMMARY_SUPPRESS_DEFAULT	The list of fields (separated by semicolons) not to
	include in the summary output file.
OUT_SUMMARY_TIME_STEP_DEFAULT	The frequency (in seconds) at which to report
	summary data (i.e., write it to disk).
OUT_SUMMARY_VELOCITY_BINS_DEFAULT	The number of bins used to cover the range of the
	velocity summary histogram.
OUT_SUMMARY_VELOCITY_MAX_DEFAULT	The maximum velocity in the velocity histogram
	(in meters per second).

## 8. VOLUME THREE (MODULES), CHAPTER SIX (SELECTORS/ITERATION DATABASES)

### 8.1 Iteration Database General Configuration File Keys

Configuration File Key	Description
ROUTER_IGNORABLE_PRIORITIES	See the Route Planner documentation.
ACT_HOME_ACTIVITY_TYPE	The number of the home activity type (non-
	negative integer). This key should be specified if an
	activity file is specified.
ACT_SCHOOL_ACTIVITY_TYPE	The number of the school sctivity type (non-
	negative integer). This key should be specified if an
	activity file is specified.
ACT_WORK_ACTIVITY_TYPE	The number of the work activity (non-negative
	integer). This key should be specified if an activity
	file is specified.
NET_ACTIVITY_LOCATION_TABLE	The activity location table name. This key is
	required.
NET_DIRECTORY	The directory where the network files reside. This
	key is required.
NET_LINK_TABLE	The link table name. This key is required.
NET_NODE_TABLE	The node table name. This key is required.
NET_PARKING_TABLE	The parking table name. This key is required.
NET_PROCESS_LINK_TABLE	The process link table name. This key is required.
NET_TRANSIT_STOP_TABLE	The transit stop table name. This key is required.
SEL_ACTIVITY_FILE	The activity file for use by the Collator. If not
	present, the ACTIVITY_FILE configuration file
	key is used. Either SEL_ACTIVITY_FILE or
	ACTIVITY_FILE must be specified.
SEL_EVENT_FILE	The event file for use by the Collator.
SEL_ITDB_FILE	The full pathname of the output Iteration Database
	file generated by the Selector Collator. An iteration
	number extension is automatically added to the end
	of this name.
SEL_MESSAGE_LEVEL	Sets the message level for the Collator, stratifier,
	and Selector modules. Message levels range from –
	1 to 4 with the higher numbers reporting more.
SEL_PLAN_FILE	The plan file for use by the Collator. If not present,
	the PLAN_FILE configuration file key is used.
SEL_POPULATION_FILE	The population file for use by the Collator. If not
	present, the ACT_POPULATION_FILE
	configuration file key is used. Either
	SEL_POPULATION_FILE or
	ACT_POPULATION_FILE must be specified.

Configuration File Key	Description
	The full pathname for the output Iteration Database created by the Stratifier. There may be several of these for each Collator run. Default = strat
SEL_UAZ_FILE_n	The full pathname of the polygon file specifying User Analysis Zone(s) n, where n is an integer starting at 1.

### 8.2 Iteration Database Activity Configuration File Keys

Configuration File Key	Description
SEL_USE_ACT_HH_ID	If set, directs the Collator to add the household ID from the activity file for the ending activity for the trip to the output Iteration Database
SEL_USE_ACT_LAST_OK_ITER	If set, directs the Collator to add a field containing the number of the last iteration on which no problems were reported for this household in the Activity Generator or Regenerator's Problem File. A value of -1 indicates there has been a problem reported on every iteration.
SEL_USE_ACT_PERSON_ID	If set, directs the Collator to add the person ID from the activity file for the ending activity for the trip to the output Iteration Database
SEL_USE_END_ACT_GROUP_NUM	If set, directs the Collator to add the activity group number from the activity file for the ending activity for the trip to the output Iteration Database
SEL_USE_END_ACT_ID	If set, directs the Collator to add the activity ID from the activity file for the starting activity for the trip to the output Iteration Database
SEL_USE_END_ACT_LOCATION	If set, directs the Collator to add the first of the possible locations from the activity file for the ending activity for the trip to the output Iteration Database
SEL_USE_END_ACT_TYPE	If set, directs the Collator to add the activity type from the activity file for the ending activity for the trip to the output Iteration Database
SEL_USE_END_DUR_LB	If set, directs the Collator to add the duration lower bound from the activity file for the ending activity for the trip to the output Iteration Database. The value is converted from fractional hours to seconds.
SEL_USE_END_DUR_UB	If set, directs the Collator to add the duration upper bound from the activity file for the ending activity for the trip to the output Iteration Database. The value is converted from fractional hours to seconds.

Configuration File Key	Description
SEL_USE_END_TIME_LB	If set, directs the Collator to add the end time lower
	bound from the activity file for the ending activity
	for the trip to the output Iteration Database.
SEL_USE_END_TIME_UB	If set, directs the Collator to add the end time upper
	bound from the activity file for the ending activity
	for the trip to the output Iteration Database.
SEL_USE_END_MODE_PREF	If set, directs the Collator to add the mode
	preference from the activity file for the ending
	activity for the trip to the output Iteration Database
SEL_USE_END_OTHER_PARTICIPANTS	If set, directs the Collator to add the number of
	other participants from the activity file for the
	ending activity for the trip to the output Iteration
	Database
SEL_USE_END_POSS_LOC	If set, directs the Collator to add the number of
	possible locations from the activity file for the
	ending activity for the trip to the output Iteration
	Database
SEL_USE_END_PRIORITY	If set, directs the Collator to add the activity
	priority from the activity file for the ending activity
	for the trip to the output Iteration Database
SEL_USE_END_START_TIME_LB	If set, directs the Collator to add the start time
	lower bound from the activity file for the ending
	activity for the trip to the output Iteration Database
SEL_USE_END_START_TIME_UB	If set, directs the Collator to add the start time
	upper bound from the activity file for the ending
	activity for the trip to the output Iteration Database
SEL_USE_END_VEHICLE_ID	If set, directs the Collator to add the vehicle ID
	from the activity file for the ending activity for the
	trip to the output Iteration Database
SEL_USE_START_ACT_GROUP_NUM	If set, directs the Collator to add the activity group
	number from the activity file for the starting
	activity for the trip to the output Iteration Database.
SEL_USE_START_ACT_ID	If set, directs the Collator to add the activity ID
	from the activity file for the starting activity for the
	trip to the output Iteration Database.
SEL_USE_START_ACT_LOCATION	If set, directs the Collator to add the first of the
	possible locations from the activity file for the
	starting activity for the trip to the output Iteration
	Database.
SEL_USE_START_ACT_TYPE	If set, directs the Collator to add the activity type
	from the activity file for the starting activity for the
	trip to the output Iteration Database.
SEL_USE_START_DUR_LB	If set, directs the Collator to add the duration lower
	bound from the activity file for the starting activity
	for the trip to the output Iteration Database. The
	value is converted from fractional hours to seconds.

Configuration File Key	Description
SEL_USE_START_DUR_UB	If set, directs the Collator to add the duration upper
	bound from the activity file for the starting activity
	for the trip to the output Iteration Database. The
	value is converted from fractional hours to seconds.
SEL_USE_START_END_TIME_LB	If set, directs the Collator to add the end time lower
	bound from the activity file for the starting activity
	for the trip to the output Iteration Database. The
	value is converted from fractional hours to seconds.
SEL_USE_START_END_TIME_UB	If set, directs the Collator to add the end time upper
	bound from the activity file for the starting activity
	for the trip to the output Iteration Database. The
	value is converted from fractional hours to seconds.
SEL_USE_START_MODE_PREF	If set, directs the Collator to add the mode
	preference from the activity file for the starting
	activity for the trip to the output Iteration Database.
SEL_USE_START_OTHER_PARTICIPANTS	If set, directs the Collator to add the number of
	other participants from the activity file for the
	starting activity for the trip to the output Iteration
	Database.
SEL_USE_START_POSS_LOC	If set, directs the Collator to add the number of
	possible locations from the activity file for the
	starting activity for the trip to the output Iteration
	Database.
SEL_USE_START_PRIORITY	If set, directs the Collator to add the activity
	priority from the activity file for the ending activity
	for the trip to the output Iteration Database.
SEL_USE_START_START_TIME_LB	If set, directs the Collator to add the start time
	lower bound from the activity file for the starting
CEL LIGE CENDE CENDE ETVE LID	activity for the trip to the output Iteration Database.
SEL_USE_START_START_TIME_UB	If set, directs the Collator to add the start time
	upper bound from the activity file for the starting
CEL LIGE CHARM VEHICLE IN	activity for the trip to the output Iteration Database.
SEL_USE_START_VEHICLE_ID	If set, directs the Collator to add the vehicle ID
	from the activity file for the starting activity for the
	trip to the output Iteration Database.

### 8.3 Iteration Database Microsimulation Event Configuration File Keys

Configuration File Key	Description
SEL_USE_ACCELS	If set, directs the Collator to add the ACCELS field
	from the Traffic Microsimulator event output data
	to the output Iteration Database. This value is
	summed across events from every leg of the trip.
SEL_USE_ANOMALY	If set, directs the Collator to add the ANOMALY
	field from the Traffic Microsimulator event output
	data to the output Iteration Database. Note that this
	gives only the value for the last event of the trip.
SEL_USE_DISTANCE_SUM	If set, directs the Collator to add the
	DISTANCE_SUM field from the Traffic
	Microsimulator event output data to the output
	Iteration Database. This value is summed across
	events from every leg of the trip.
SEL_USE_EVENT_LEG_ID	If set, directs the Collator to add the LEG field from
	the Traffic Microsimulator event output data to the
	output Iteration Database. Only the value for the
	first event of each trip is reported.
SEL_USE_EVENT_PERSON_ID	If set, directs the Collator to add the TRAVELER
	field from the Traffic Microsimulator event output
	data to the output Iteration Database.
SEL_USE_EVENT_TRIP_ID	If set, directs the Collator to add the TRIP field
	from the Traffic Microsimulator event output data
	to the output Iteration Database.
SEL_USE_EVENT_USER	If set, directs the Collator to add the USER field
	from the Traffic Microsimulator event output data
	to the output Iteration Database.
SEL_USE_EVENT_VEHICLE_ID	If set, directs the Collator to add the VEHICLE
	field from the Traffic Microsimulator event output
	data to the output Iteration Database. Only the
	value for the first event of each trip is reported.
SEL_USE_LINK	If set, directs the Collator to add the LINK field
	from the Traffic Microsimulator event output data
	to the output Iteration Database. Note that this
	gives only the value for the last event of the trip.
SEL_USE_LOCATION	If set, directs the Collator to add the LOCATION
	field from the Traffic Microsimulator event output
	data to the output Iteration Database. Note that this
	gives only the value for the last event of the trip.
SEL_USE_NODE	If set, directs the Collator to add the NODE field
	from the Traffic Microsimulator event output data
	to the output Iteration Database. Note that this
	gives only the value for the last event of the trip.

Configuration File Key	Description
SEL_USE_ROUTE	If set, directs the Collator to add the ROUTE field
	from the Traffic Microsimulator event output data
	to the output Iteration Database. Only the value for
	the first event of each trip is reported.
SEL_USE_SIGNALS	If set, directs the Collator to add the SIGNALS
	field from the Traffic Microsimulator event output
	data to the output Iteration Database. This value is
	summed across events from every leg of the trip.
SEL_USE_STATUS	If set, directs the Collator to add the STATUS field
	from the Traffic Microsimulator event output data
	to the output Iteration Database. Note that this
	gives only the value for the last event of the trip.
SEL_USE_STOPPED	If set, directs the Collator to add the STOPPED
	field from the Traffic Microsimulator event output
	data to the output Iteration Database. This value is
	summed across events from every leg of the trip.
SEL_USE_STOPS	If set, directs the Collator to add the STOPS field
	from the Traffic Microsimulator event output data
	to the output Iteration Database. This value is
	summed across events from every leg of the trip.
SEL_USE_TIME	If set, directs the Collator to add the TIME field
	from the Traffic Microsimulator event output data
	to the output Iteration Database. Only the value for
	the last event of each trip is reported.
SEL_USE_TIME_SUM	If set, directs the Collator to add the TIME_SUM
	field from the Traffic Microsimulator event output
	data to the output Iteration Database. This value is
	summed across events from every leg of the trip.
SEL_USE_TURN	If set, directs the Collator to add the TURN field
	from the Traffic Microsimulator event output data
	to the output Iteration Database. Note that this
	gives only the value for the last event of the trip.
SEL_USE_VEH_SUBTYPE	If set, directs the Collator to add the VSUBTYPE
	field from the Traffic Microsimulator event output
	data to the output Iteration Database. Only the
	value for the first event of each trip is reported.
SEL_USE_VEH_TYPE	If set, directs the Collator to add the VEHTYPE
	field from the Traffic Microsimulator event output
	data to the output Iteration Database.
SEL_USE_YIELDS	If set, directs the Collator to add the YIELDS field
	from the Traffic Microsimulator event output data
	to the output Iteration Database. This value is
	summed across events from every leg of the trip.

### 8.4 Iteration Database Router/Plan Configuration File Keys

Configuration File Key	Description
SEL_USE_COST	If set, directs the Collator to add the cost from the Plan file for the trip to the output Iteration Database. Note that there are multiple legs in a trip, each of which contains a value for this field. The Collator will use the sum over all legs.
SEL_USE_DEP_TIME	If set, directs the Collator to add the departure time from the Plan file for the trip to the output Iteration Database. Note that there are multiple legs in a trip, each of which contains a value for this field. The Collator will use the first leg.
SEL_USE_DRIVER	If set, directs the Collator to add the driver flag from the Plan file for the trip to the output Iteration Database. The Collator will fill this field with NA, since there are multiple possible values per trip.
SEL_USE_DURATION	If set, directs the Collator to add the (expected) duration from the Plan file for the trip to the output Iteration Database. Note that there are multiple legs in a trip, each of which contains a value for this field. The Collator will use the sum over all legs.
SEL_USE_END_ACC	If set, directs the Collator to add the ending accessory ID from the Plan file for the trip to the output Iteration Database. Note that there are multiple legs in a trip, each of which contains a value for this field. The Collator will use the last leg.
SEL_USE_END_ACC_TYPE	If set, directs the Collator to add the ending accessory type from the Plan file for the trip to the output Iteration Database. Note that there are multiple legs in a trip, each of which contains a value for this field. The Collator will use the last leg.
SEL_USE_GCF	If set, directs the Collator to add the generalized cost function from the Plan file for the trip to the output Iteration Database. Note that there are multiple legs in a trip, each of which contains a value for this field. The Collator will use the sum over all legs.
SEL_USE_LEG_ID	If set, directs the Collator to add the leg ID from the Plan file for the trip to the output Iteration Database. The Collator will fill this field with "NA", since there are multiple legs for each trip.

Configuration File Key	Description
SEL_USE_MAX_TIME	If set, directs the Collator to add the max time flag from the Plan file for the trip to the output Iteration Database. Note that there are multiple legs in a trip, each of which contains a value for this field. The Collator will use the last leg.
SEL_USE_MODE	If set, directs the Collator to add the mode from the Plan file for the trip to the output Iteration Database. The Collator will fill this field with NA, since there are multiple possible values per trip.
SEL_USE_PLAN_PERSON_ID	If set, directs the Collator to add the person ID from the Plan file for the trip to the output Iteration Database.
SEL_USE_PLAN_USER	If set, directs the Collator to add the person ID from the Plan file for the trip to the output Iteration Database. Note that there are multiple legs in a trip, each of which contains a value for this field. The Collator will use the first leg.
SEL_USE_ROUTER_LAST_OK_ITER	If set, directs the Collator to add a field containing the number of the last iteration on which no problems were reported for this traveler in the Router's Problem File. A value of -1 indicates there has been a problem reported on every iteration.
SEL_USE_START_ACC	If set, directs the Collator to add the starting accessory from the Plan file for the trip to the output Iteration Database. Note that there are multiple legs in a trip, each of which contains a value for this field. The Collator will use the first leg.
SEL_USE_START_ACC_TYPE	If set, directs the Collator to add the starting accessory type from the Plan file for the trip to the output Iteration Database. Note that there are multiple legs in a trip, each of which contains a value for this field. The Collator will use the first leg.
SEL_USE_STOP_TIME	If set, directs the Collator to add the (expected) arrival time from the Plan file for the trip to the output Iteration Database. Note that there are multiple legs in a trip, each of which contains a value for this field. The Collator will use the last leg.
SEL_USE_TRIP_ID	If set, directs the Collator to add the value in the user field from the Plan file for the trip to the output Iteration Database.

### 8.5 Iteration Database Population Configuration File Keys

Configuration File Key	Description
SEL_USE_ <pop_file field="" header=""></pop_file>	If set, directs the Collator to add the corresponding demographic variable from the population file to the output Iteration Database.
SEL_USE_BLOCK_GROUP	If set, directs the Collator to add the BLOCK_GROUP field from the population file to the output Iteration Database.
SEL_USE_HH_ID	If set, directs the Collator to add the HH_ID field from the population file to the output Iteration Database.
SEL_USE_HOME_LOCATION	If set, directs the Collator to add the HOME_LOCATION field from the population file to the output Iteration Database.
SEL_USE_NUMBER_PERSONS	If set, directs the Collator to add the NUMBER_PERSONS field from the population file to the output Iteration Database.
SEL_USE_NUMBER_VEHICLES	If set, directs the Collator to add the NUMBER_VEHICLES field from the population file to the output Iteration Database.
SEL_USE_PERSON_ID	If set, directs the Collator to add the PERSON_ID field from the population file to the output Iteration Database.
SEL_USE_TRACT	If set, directs the Collator to add the TRACT field from the population file to the output Iteration Database.

### 8.6 Iteration Database Stratifier Configuration File Keys

Configuration File Key	Description
SEL_ALGORITHM	A comma- or semicolon-separated list of names of algorithms used to select travelers. Currently, the allowed values are: HI_VAR, LO_VAR, HI_RANGE, LO_RANGE, HI_MEAN, LO_MEAN, HI_SIGMA, and LO_SIGMA. These values instruct the Selector to pick the cell with the highest or lowest variance, range, mean, or ratio of mean to standard deviation, respectively. In addition, it is possible to pick a cell by index using the argument PICK_CELL <n>, where <n> is an integer. If the k binnings that make up a cell have <math>n_0</math>, <math>n_1</math>,, <math>n_k</math> bins each, a set of indexes into each binning of the form <math>(i_0, i_1,, i_k)</math> is equivalent to the cell index <math>i_k + n_{(k-1)} * (i_{(k-1)} + + * (i_2 + n_1 * (i_0)))</math>. One algorithm must be supplied for each name in the SEL_COST argument.</n></n>
SEL_ALGORITHM	A comma- or semicolon-separated list of names of algorithms used to select travelers. Currently, the allowed values are: HI_VAR, LO_VAR, HI_RANGE, LO_RANGE, HI_MEAN, LO_MEAN, HI_SIGMA, and LO_SIGMA. One algorithm must be supplied for each name in the SEL_COST argument.
SEL_BIN_BOUNDS_n SEL_BIN_FIELD_n	If specified, the bin boundaries used for binning n. The argument is a comma- or semicolon-separated list of values. Bins will be created extending from the smallest value to - infinity and from the largest value to + infinity. Over-ridden if SEL_BINS_NUMBINS_n is present.  The column name of the input Iteration Database used for creating binning n.
SEL_BIN_NAME_n	The column name for binning n in the output Iteration Database. n must start at 0.
SEL_BIN_NUMBINS_n	If specified, the number of bins to create for binning n. Bin boundaries will be chosen to create bins with equal numbers of elements. The number of bins may be adjusted within the code if the distribution of elements is concentrated on a few values.

Configuration File Key	Description
SEL_BIN_SEL_ALGO	A semicolon-separated list of names of algorithms to use in selecting trips from within the chosen cell of the stratification. Possible values are: RANDOM, TAIL, or ALL. There must be one algorithm supplied for each name in the SEL_COST argument. The RANDOM value takes two optional parameters: the first is the fraction of elements to select; the second is the absolute number of elements to select, which overrides the first if it is smaller. For example: RANDOM, 0.2, 100; TAIL takes one required and three optional arguments. The first is 0 if the lowest cost tail is to be selected and non-zero otherwise; the second is the fraction of trips to select; the third is an absolute threshold to apply; and the last is an
SEL_COST	absolute number of elements to select.  A comma- or semicolon-separated list of names of columns in the input Iteration Database to associate with stratifications for use by the Selector in selecting trips. One selected set will be created for each name.
SEL_GOAL	The Activity Regenerator command to be associated with the selected set of trips. One goal must be supplied for each name in the SEL_COST argument. The entire goal string is written to the Activity Generator feedback file after each selected traveler ID.
SEL_STRAT_BINS	A semicolon-separated list of comma-separated strings specifying the names of binnings in the Iteration Database to be used in stratifying the data.
SEL_USE_STRATIFICATION	Each semi-colon separated list in the value of SEL_STRAT_BINS creates one stratification, indexed beginning with 0. One stratification must be supplied for each name in the SEL_COST argument.

### 8.7 Iteration Database Algorithm Configuration File Keys

Configuration File Key	Description
SEL_USE_AND	Directs the Collator to include a field (for each
	pair) which is the logical AND between the values
	of the two fields. The argument is a semicolon
	separated list of comma-separated Iteration
	Database field names.

Configuration File Key	Description
SEL_USE_CROSS_BOUND	Adds a field to the output Iteration Database which
	is true if the starting and ending activity locations
	for the trip are in different polygons. The argument
	is a comma-separated list of UAZ ID, as above,
	but without the polygon identifier. The value of this
	field is true if the starting and ending activity
	locations for the trip are in different polygons.
SEL_USE_DIFF	Directs the Collator to include a field (for each
	pair) which is the difference between the values of
	the two fields. The argument is a semicolon-
	separated list of comma-separated Iteration
	Database field names.
SEL_USE_DRIVES_PASSENGER	Directs the Collator to include a field which is true
	if, on any leg of the trip, the Plan file specifies that
	the traveler drives a vehicle with passengers. Does
27. 727. 777.	not apply to transit vehicle drivers.
SEL_USE_EFFSPEED	Directs the Collator to include a field giving the
	ratio of the Euclidean distance between start and
	end activities to the total time (as calculated for
	SEL_USE_T_TOTAL).
SEL_USE_END_ACT_USER_DATA	Directs the Collator to include a field giving the
	value of any user-specified field in the Activity Location network table for the activity location at
	the end of the trip. The argument is a semicolon-
	separated list of field names.
SEL_USE_END_IN_REGION	See SEL_USE_START_IN_REGION. The value
DII_ODI_IND_IN_NEGION	of this field will be true if the ending activity
	location is inside the polygon.
SEL_USE_END_REGION	The number (n) of the User Analysis Zone
	specified by the configuration file key
	SEL_UAZ_FILE_n. The value of the field in the
	iteration database is the number of the polygon in
	the UAZ that contains the ending activity location
	or –1 if not in any defined polygon.
SEL_USE_EUCLID	Directs the Collator to include a field giving the
	Euclidean distance between the starting and ending
	activity locations, in the same units the network
	tables use.
SEL_USE_FINISH_TRIP	Directs the Collator to include a field that is true if
	an "end trip" event is found for this trip in the event
	output file.

Configuration File Key	Description
SEL_USE_MODE_LEG_COUNT	Directs the Collator to include a field giving the number of legs on the trip using the specified mode. The argument is a comma-separated list of modes. Currently, only the following modes are distinguished:  w - walk i - bicycle t, 1, or b - transit c - non-transit vehicle (as driver or passenger) a - activity
SEL_USE_MODE_STRING	Directs the Collator to include a field reflecting the modes used on every leg of this trip. The value is a string with one letter for each leg, starting from the left. Information comes from the Plan file, which does not know about as many modes as the activity file. Currently the letters used and their meanings are:  c - driving a vehicle p - passenger in a non-transit vehicle t - transit w - walk i - bicycle a - activity (no transportation)
SEL_USE_NUMLEGS	Directs the Collator to include a field giving the number of legs in this trip, as found in the Plan file.
SEL_USE_OR	Directs the Collator to include a field (for each pair) which is the logical OR between the values of the two fields. The argument is a semicolon-separated list of comma-separated Iteration Database field names.
SEL_USE_PRODUCT	Directs the Collator to include a field (for each pair) which is the product of the values of the two fields. The argument is a semicolon-separated list of comma-separated Iteration Database field names.
SEL_USE_RATIO	Directs the Collator to include a field (for each pair) which is the ratio between the values of the two fields. The argument is a semicolon-separated list of comma separated Iteration Database field names.
SEL_USE_RELDIFF	Directs the Collator to include a field (for each pair) which is the relative difference between the values of the two fields. The argument is a semicolon-separated list of comma-separated Iteration Database field names.  SEL_USE_RELDIFF A, B creates a field with values (A - B) / B.

Configuration File Key	Description
SEL_USE_START_ACT_USER_DATA	Directs the Collator to include a field giving the
	value of any user-specified field in the Activity
	Location network table for the activity location at
	the beginning of the trip. The argument is a
	semicolon-separated list of field names.
SEL_USE_START_IN_REGION	Adds a field to the Iteration Database which has the
	value true if the starting activity location is in the
	specified polygon. The argument is a semicolon-
	separated list of UAZ region identifiers. Each
	region identifier is of the form <uaz_id>,</uaz_id>
	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>
	referring to a User Analysis Zone file specified by
	, , ,
	the UAZ_FILE_NAME configuration file key and
	<pre><polygon id=""> is the ID of a polygon contained</polygon></pre>
	within that file. The Iteration Database column will
	be named
	START_IN_REGION_ <uaz_id>_<polygon< td=""></polygon<></uaz_id>
	ID>. Its value will be a boolean, which is true if
	the starting activity location for the trip is inside the
	polygon.
SEL_USE_START_REGION	The number (n) of the User Analysis Zone
	specified by the configuration file key
	SEL_UAZ_FILE_n. The value of the field in the
	iteration database is the number of the polygon in
	the UAZ that contains the starting activity location
	or –1 if not in any defined polygon.
SEL_USE_SUM	Directs the Collator to include a field (for each
	pair) which is the sum of the values of the two
	fields. The argument is a semicolon-separated list
	of comma-separated Iteration Database field
	names.
SEL_USE_T_MODE	Directs the Collator to include a field giving the
	total time (in seconds) spent in a particular mode
	on this trip, as found from the expected duration of
	those legs in the Plan file. See
	SEL_USE_MODE_LEG_COUNT for a list of the
	modes that can be distinguished. The argument
	should be a semicolon-separated list of mode
	characters.
SEL_USE_T_TOTAL	Directs the Collator to include a field giving the
	total time spent on this trip as found from the
	difference in the TIME field between the last and
	first events for this trip. The event output file
	should capture events with "change on trip" status.
	produce expense events with enumber on trip status.

Configuration File Key	Description
SEL_USE_T_WAIT	Directs the Collator to include a field giving the total time spent waiting as found by summing over the times between "begin waiting" and "end waiting" events in the event output file. The event output file must capture these events and must not filter out the TIME field.
SEL_USE_T_WALK	Directs the Collator to include a field giving the total time (in seconds) spent walking on this trip, as found from the expected duration of walk legs in the Plan file.
SEL_USE_TRAVERSE_REGION	The number (n) of the User Analysis Zone specified by the configuration file key SEL_UAZ_FILE_n. The value of the field in the iteration database is true if one of the start/end activity locations is in the specified UAZ and the other is outside the UAZ.
SEL_USE_XOR	Directs the Collator to include a field (for each pair) which is the logical exclusive OR between the values of the two fields. The argument is a semicolon-separated list of comma-separated Iteration Database Field names.

## 9. VOLUME THREE (MODULES), CHAPTER SEVEN (EMISSIONS ESTIMATOR)

**Note**: Avoid using the percent (%) character when namin ginput and output files. This will cause problems with the logging system and output of warning and error messages.

Configuration File Key	Description
EMISSION_RATIOS_LONG_SOAK_FILE	Multipliers representing ratios of the
	different emissions by eight power
	levels for long soaks.
	Default = longSoakRatios
EMISSIONS_ARRAY_PARAMETERS_FILE	The parameters describing the number
or	of records and increments used in
EMISSIONS_HDV_ARRAY_PARAMETERS_FILE	composite input files.
	Default = $ARRAYP.INP$ or
	ARRAY_HDV.INP
EMISSIONS_COMPOSITE_DIFF_INPUT_FILE	The composite emissions for the
	differences in emissions and fuel
	consumption for current versus last
	timestep for road grades < 1% or
	downhill. Default = arraypd.out
EMISSIONS_COMPOSITE_DIFF2P_INPUT_FILE	The composite emissions for the
	differences for road grades between
	1% and 3%. Default = $arraypd2p.out$
EMISSIONS_COMPOSITE_DIFF4P_INPUT_FILE	The composite emissions for the
	differences for road grades between
	3% and $5%$ . Default = $arraypd4p.out$
EMISSIONS_COMPOSITE_DIFF6P_INPUT_FILE	The composite emissions for the
	differences for road grades above 5%.
	Default = arraypd6p.out
EMISSIONS_COMPOSITE_HDV_INPUT_FILE	The composite vehicle emissions in
	4-mph speed bins and four power
	bins.
	Default = catruck.acc
EMISSIONS_COMPOSITE_INPUT_FILE	The composite vehicle emissions in
	4-mph speed bins and 20-mph squared
	per second power bins for road grades
	< 1% or downhill.
	Default = arrayp.out
EMISSIONS_COMPOSITE_TYPE_DIFF_INPUT_FILE	The composite emissions for the
	difference in emissions and fuel
	consumption versus last timestep for
	23 LDV subtypes.
TWIGGIONG COMPOSITE TWO TYPES	Default = batchtotpd
EMISSIONS_COMPOSITE_TYPE_INPUT_FILE	The composite emissions for 20
	speeds, 34 power levels, and 23 LDV
	types.
	Default = <i>batchtotpc</i>

Configuration File Key	Description
EMISSIONS_COMPOSITE2P_INPUT_FILE	The composite vehicle emissions or
EMISSIONS_COMPOSITEZE_INFOT_FILE	road grades between 1% and 3%.
	Default = arrayp2p.out
EMISSIONS_COMPOSITE4P_INPUT_FILE	The composite vehicle emissions or
EMISSIONS_COMEOSTIETE_INFOT_FILE	road grades between 3% and 5%.
	Default = arrayp4p.out
EMISSIONS_COMPOSITE6P_INPUT_FILE	The composite vehicle emissions or
	road grades above 5%.
	Default = arrayp6p.out
EMISSIONS_DEBUG1_FILE	First debugging file.
or	Default = <i>debug.ldv.out</i> or
	debug.hdv.out
EMISSIONS_DEBUG1_HDV_FILE	-
EMISSIONS_DEBUG2_FILE	Second debugging file.  Default = calcsum.ldv or calcsum.hdv
or	Default – calcsum.tav of calcsum.nav
EMISSIONS_DEBUG2_HDV_FILE	
EMISSIONS_ENR_LONG_SOAK_FILE	The filename of the postprocessed
	energy file for the long soak vehicles.
	Created by the ConvertENRfile
	program.
	Default = energy.long.out
EMISSIONS_ENR_MEDIUM_SOAK_FILE	The filename of the postprocessed
	energy file for the medium soak
	vehicles. Created by the
	ConvertENRfile program.
	Default = energy.medium.out
EMISSIONS_ENR_NO_SOAK_FILE	The filename of the postprocessed
	energy file for the negligible soak
	vehicles. Created by the
	ConvertENRfile program.
	Default = energy.no.out
EMISSIONS_ENR_SHORT_SOAK_FILE	The filename of the postprocessed
	energy file for the short soak vehicles.
	Created by the ConvertENRfile
	program.
	Default = energy.short.out
EMISSIONS_EVAP_CITY_FILE	The name of the file containing city-
	specific data such as temperature
	distribution and vehicle data.
	Default = evapCityData
EMISSIONS_EVAP_COEF_FILE	The name of the file containing
	running loss coefficients.
ENTEGRANG BULD DEDUC TO THE	Default = EMISSIONS_MATRICES.dat
EMISSIONS_EVAP_DEBUG_FILENAME	The name of the Evaporative
	Emissions debugging file.
	Default – debug.dat
EMISSIONS_EVAP_OPERATING_OUTFILENAME	The name of the file to which
	operating loss emissions are written.
	Default = Operating EvapEmis.dat
EMISSIONS_EVAP_STATIONARY_OUTFILENAME	The name of the file to which
	stationary loss emissions are written.
	Default = Stationary Evap Emis. dat

Configuration File Key	Description
EMISSIONS_LDV_OUTPUT_FILE	The filenames of the final output from
or	the Tailpipe Emissions Estimator.
EMISSIONS_HDV_OUTPUT_FILE	Default = $emissions.ldv.out$ or
EMISSIONS_UDV_OOIPOI_FILE	emissions.hdv.out
EMISSIONS_LDV_VELOCITY_FILE	The filename for the reformatted
	Traffic Microsimulator velocity
or	output. These files are created by the
EMISSIONS_HDV_VELOCITY_FILE	ConvertVELfile utility program.
	Default = <i>velocity.ldv.out</i> or
	velocity.hdv.out
EMISSIONS_MICROSIM_ENR_LONG_SOAK_FILE	The filename of the Traffic
EMISSIONS_MICROSIM_ENK_LONG_SOAK_FILE	Microsimulator energy file containing
	energies for long soak vehicles.
	Default = summary.long.enr
EMICCIONC MICDOCIM END MEDIUM COAV EILE	The filename of the Traffic
EMISSIONS_MICROSIM_ENR_MEDIUM_SOAK_FILE	Microsimulator energy file containing
	energies for medium soak vehicles.  Default = summary.medium.enr
EMICCIONO MICIDOCIM END NO CONVETTE	The filename of the Traffic
EMISSIONS_MICROSIM_ENR_NO_SOAK_FILE	
	Microsimulator energy file containing
	energies for negligible soak vehicles. Default = <i>summary.no.enr</i>
TUTGGTONG NTGDOGTN THE GUODE GOLD THE	ž
EMISSIONS_MICROSIM_ENR_SHORT_SOAK_FILE	The filename of the Traffic
	Microsimulator energy file containing
	energies for short soak vehicles.
	Default = summary.short.enr
EMISSIONS_MICROSIM_LDV_VELOCITY_FILE	The filenames for the Traffic
or	Microsimulator velocity output data.
EMISSIONS_MICROSIM_HDV_VELOCITY_FILE	Default = <i>summary.ldv.vel</i> or
	summary.hdv.vel
EMISSIONS_MICROSIM_TRAVELER_FILE	The filename of the Traffic
	Microsimulator traveler event file.
	Default = event.trv
EMISSIONS_PA_OUTPUT_FILE	The filename of the parking output
	file from ConvertTRVfile.
	Default = $pa.out$
EMISSIONS_RATIOS_MEDIUM_SOAK_FILE	Multipliers representing ratios of the
	different emissions by eight power
	levels for medium soaks.
	Default = mediumSoakRatios
EMISSIONS_RATIOS_SHORT_SOAK_FILE	Multipliers representing ratios of the
	different emissions by eight power
	levels for short soaks.
	Default = shortSoakRatios
EMISSIONS_SUBTYPE_OUTPUT_FILE	The filename of the vehicle subtype
	output file from ConvertTRVfile.
	Default = sub.out
EMISSIONS_VEHICLE_TYPE_DISTRIBUTION	The distributions by 23 LDV types.
	Default = vehdist
EMISSIONS_WRITE_DEBUG_OUTPUT	Whether to create the two debug files
	or not
	Default = 0 (not to write out)

### 9.1 Emissions Estimator Configuration File Keys That Must Be Set to a Specific Value

Configuration File Key	Description
CA_CELL_LENGTH	The length of a cell that a vehicle
	occupies (in meters). Must be set to
	7.5.
CA_LONG_SOAK_TIME	Time where medium vs. long soak is
	determined (in seconds). Must be set
	to 9000.
CA_MEDIUM_SOAK_TIME	Time where short vs. medium soak is
	determined (in seconds). Must be set
G. 61107 GOLV. 77117	to 1800.
CA_SHORT_SOAK_TIME	Time where negligible vs. short soak
	is determined (in seconds). Must be
NET_ACTIVITY_LOCATION_TABLE	set to 600.
NET_DIRECTORY	The activity location table name.
MET_DIKECIOKI	The full path name to the directory
NET_LINK_TABLE	containing the network tables.  The name of the link table.
NET_NODE_TABLE	The name of network's node table.
NET_PARKING_TABLE NET_PROCESS_LINK_TABLE	The parking table name.
NET_TRANSIT_STOP_TABLE	The process link table name.
OUT_SUMMARY_BOX_LENGTH_n	The transit stop table name.
or	The length of the roadway used to collect summary data (in meters).
OUT_SUMMARY_BOX_LENGTH_DEFAULT	Must be set to 30.
OUT_SUMMARY_ENERGY_BINS_n	The number of bins to cover the
or	range of energy histograms. Must be
OUT_SUMMARY_ENERGY_BINS_DEFAULT	set to 7.
OUT_SUMMARY_ENERGY_MAX_n	The maximum energy for the range of
or	energies found in energy histograms.
OUT_SUMMARY_ENERGY_MAX_DEFAULT	Must be set to 105.
OUT_SUMMARY_ENERGY_SOAK_n	The type of energy soak data to
	collect. There must be four file
	specifications (one for each soak
	type): NEGLIGIBLE, SHORT,
	MEDIUM, and LONG.
OUT_SUMMARY_SAMPLE_TIME_n	The frequency (in seconds) at which
or	to accumulate velocity data. Must be
OUT_SUMMARY_SAMPLE_TIME_DEFAULT	set to 1.
OUT_SUMMARY_TIME_STEP_n	The frequency (in seconds) at which
OF	to report velocity and energy data.
OUT_SUMMARY_TIME_STEP_DEFAULT	Must be set to 3600 (except for
	summary time data set to 900).

Configuration File Key	Description
OUT_SUMMARY_TYPE_n	The type of summary output to
	collect. Specifications are needed for
	VELOCITY and ENERGY.
OUT_SUMMARY_VEHICLE_TYPE_n	The type of velocity summary data to
	collect. Set to AUTO to collect LDV
	data, and either TRUCK or BUS for
	HDV data.
OUT_SUMMARY_VELOCITY_BINS_n	The number of bins used to cover the
or	range of the velocity histogram.
OUT_SUMMARY_VELOCITY_BINS_DEFAULT	Must be set to 5.
OUT_SUMMARY_VELOCITY_MAX_n	The maximum velocity for range of
or	velocities found in velocity
OUT_SUMMARY_VELOCITY_MAX_DEFAULT	histograms. Must be set to 37.5.

## 10. VOLUME THREE (MODULES), CHAPTER EIGHT (OUTPUT VISUALIZER)

### 10.1 Mandatory Output Visualizer Configuration File Keys

Configuration File Key	Description
CA_CELL_LENGTH	The length of a cell in meters. Default = 7.5
NET_ACTIVITY_LOCATION_TABLE	The name of the network activity location table or an
	empty activity location table.
NET_BARRIER_TABLE	The name of a network barrier table or an empty
	barrier table.
NET_DIRECTORY	The name of the directory containing the network
	tables.
NET_LANE_WIDTH	The width of a lane in meters. Default = $3.5$
	Note: The settings for NET_LANE_WIDTH used by
	the Output Visualizer must be the same as those used
	by the output system for the vehicles to be placed
	properly on the network.
NET_LINK_MEDIAN_HALFWIDTH	The distance that the links are offset from the node;
	must be set to ½ of NET_LANE_WIDTH.
	Notes this less must be the same for collecting output
	Note: this key must be the same for collecting output and running the Output Visualizer; otherwise, vehicles
	will not be centered properly in lanes.
NET_LINK_TABLE	The name of the network link table.
NET_NODE_TABLE	The name of the network node table.
NET_PARKING_TABLE	The name of the network node table.  The name of the network parking table or an empty
	parking table.
NET_POCKET_LANE_TABLE	The name of the network pocket lane table or an
	empty pocket lane table.
NET_TRANSIT_STOP_TABLE	The name of network transit stop table or an empty
	transit stop table .
OUT_SNAPSHOT_SUPPRESS_1	These keys determine what fields to suppress in the
	snapshot output file. Nothing needs to be suppressed,
	but the text vehicle evolution file size will be reduced
	if the key is set to:
	ACCELER; DRIVER; USER; LANE; NODE; DISTANCE.
VIS_BOX_LENGTH	The summary box length in meters; should be 150
	(meters).

### 10.2 Optional Output Visualizer Configuration File Keys That May Be Used in the Configuration File

These configuration file keys are read from the configuration file that is used in running the Output Visualizer. They are fewer in number than those that can be read/set after the Output Visualizer is running (see Appendix D).

Configuration File Key	Description
VIS_BACKGROUND_ALPHA	The alpha color value for the viewing
	area background, 0.0 to 1.0. Not used
	at this time.
VIS_BACKGROUND_BLUE	The blue color value for the viewing
	area background, 0.0 to 1.0.
VIS_BACKGROUND_GREEN	The green color value for the viewing
	area background, 0.0 to 1.0.
VIS_BACKGROUND_RED	The red color value for the viewing
	area background, 0.0 to 1.0.
VIS_COLORMAPS	The full path and file name of a set of
	colormaps produced with the
	<i>mkallbinmaps</i> utility to use in the
	Output Visualizer.
VIS_NETWORK_ACTIVITY_LOCATION_POINTSIZE	The size of an activity location point,
	0.0 to 10.0.
VIS_NETWORK_BARRIER_POINTSIZE	The size of a barrier point,
	0.0 to 10.0
VIS_NETWORK_DETECTOR_POINTSIZE	The size of a detector point,
	0.0 to 10.0
VIS_NETWORK_NODE_POINTSIZE	The size of a node point,
	0.0 to 10.0.
VIS_NETWORK_PARKING_POINTSIZE	The size of a parking accessory point,
	0.5 to 10.0.
VIS_NETWORK_TRANSIT_POINTSIZE	The size of a transit stop point,
	0.0 to 10.0.
VIS_NETWORK_VIEW_ACTIVITY_LOCATIONS	The toggle to view activity locations.
	0 – Do not view activity locations
	1 – View activity locations
VIS_NETWORK_VIEW_BARRIERS	The toggle to view barriers.
	0 – Do not view barriers
	1 – View barriers
VIS_NETWORK_VIEW_BOXES	The toggle to view boxes.
	0 – Do not view boxes
	1 – View boxes
VIS_NETWORK_VIEW_DETECTORS	The toggle to view detectors.
	0 –Do not view detectors
	1 – View detectors

Configuration File Key	Description
VIS_NETWORK_VIEW_LANE_DIVIDERS	The toggle to view lane dividers.
	0 – Do not view lane dividers
	1 – View lane dividers
VIS_NETWORK_VIEW_LINKS	The toggle to view links.
	0 – Do not view links
	1 – View links
VIS_NETWORK_VIEW_NODES	The toggle to view nodes.
	0 – Do not view nodes
	1 – View nodes
VIS_NETWORK_VIEW_PARKING	The toggle to view parking.
	0 – Do not view parking
	1 – View parking
VIS_NETWORK_VIEW_TRANSIT	The toggle to view transit stops.
	0 – Do not view transit stops
	1 – View transit stops
VIS_SINGLE_BUFFERED	The toggle for double or single
	buffered.
	0 – Double buffered (default)
	1 – Single buffered
	The value should always be 0 unless
	the video adapter will not allow
	double buffering.
VIS_SLIDER_SCALE	The initial scale, 1.0 and larger.
	Default = 1.0
VIS_SLIDER_SPEED	The initial speed, 0.005 to 1.0.
	Default = $1.0$
VIS_SLIDER_THRESHOLD	The initial threshold, 0.005 to 1.0
	Default = 1.0
VIS_SLIDER_XROT	The initial X rotation, 0.0 to 360.0.
	Default = $0.0$
VIS_SLIDER_YROT	The initial Y rotation, 0.0 to 360.0.
	Default = $0.0$
VIS_SLIDER_ZROT	The initial Z rotation, 0.0 to 360.0.
	Default = $0.0$
VIS_UNDERLAYFILE	The name of a file to be read in and
_	drawn underneath the network. This
	file must be of the Underlay file
	format. This can be used to add
	objects to the network that are visible
	at all times.
VIS_VEHICLE_DRAW3D	The toggle for 2D or 3D vehicles.
	0-2D vehicles
	1 – 3D vehicles

Configuration File Key	Description
VIS_VEHICLE_DRAWMODE	The coloring method for vehicles,
	0 to
	0 – Same color mode
	1 – Color by Type mode
	2 – Color by Passengers mode
	3 – Color by Velocity mode
	4 – Random coloring by vehicle ID
	5 – Color by User field mode
VIS_VEHICLE_POINTSIZE	The size of a vehicle when it is a
	point, 0.0 to 10.0.
VIS_XSLIDER_360DEFAULT	The toggle for default X rotation.
	0 – Default X rotation of 0.0
	1 – Default X rotation of 360.0
VIZ_EXECUTE_BATCHFILE	The full path name and filename of
	the Output Visualizer Batch
	Command file to execute upon
	startup of the Output Visualizer.

## 10.3 Output Visualizer Configuration File Keys That May Be Read Interactively

Configuration File Key	Description
#Latest Keys start here	An optional comment line that may be
	included in the file for bookkeeping
	purposes.
NET_LANE_WIDTH	The network lane width.
	Default = 3.5
VIS_ACTIVITIES_COLOR_BLUE	The blue color value for drawing activity
	locations, 0.0 to 1.0.
VIS_ACTIVITIES_COLOR_GREEN	The green color value for drawing activity
NEG AGENTEERS GOLOD DED	locations, 0.0 to 1.0.
VIS_ACTIVITIES_COLOR_RED	The red color value for drawing activity
LITA DAGUADAINID ALDIIA	locations, 0.0 to 1.0.
VIS_BACKGROUND_ALPHA	The alpha color value for the viewing area
	background, 0.0 to 1.0. Not used at this time.
VIS_BACKGROUND_BLUE	The blue color value for the viewing area
VIS_BACKGROOND_BLICE	background, 0.0 to 1.0.
VIS_BACKGROUND_GREEN	The green color value for the viewing area
VIB_BIGROROUND_GREEN	background, 0.0 to 1.0.
VIS_BACKGROUND_RED	The red color value for the viewing area
	background, 0.0 to 1.0.
VIS_BARRIERS_COLOR_BLUE	The blue color value for drawing barriers,
	0.0 to 1.0.
VIS_BARRIERS_COLOR_GREEN	The green color value for drawing barriers,
	0.0 to 1.0.
VIS_BARRIERS_COLOR_RED	The red color value for drawing barriers,
	0.0 to 1.0.
VIS_BOXES_COLOR_BLUE	The blue color value for drawing boxes,
	0.0 to 1.0.
VIS_BOXES_COLOR_GREEN	The green color value for drawing boxes,
	0.0 to 1.0.
VIS_BOXES_COLOR_RED	The red color value for drawing boxes, 0.0
	to 1.0.
VIS_BOXESDRAWMODE	The toggle to select how boxes are drawn.
	0 – Boxes are drawn as solid polygons
	1 – Boxes are drawn with lines tracing
	the box edges 2 – Boxes are drawn as solid polygons
	and the edges outlined (default)
VIS_DETECTORS_COLOR_BLUE	The blue color value for drawing detectors,
	0.0 to 1.0.
VIS_DETECTORS_COLOR_GREEN	The green color value for drawing
	detectors, 0.0 to 1.0.

Configuration File Key	Description
VIS_DETECTORS_COLOR_RED	The red color value for drawing detectors,
	0.0 to 1.0.
VIS_FVTRANSLATEMODE	The toggle to determine whether the
	Follow Vehicle mode is on or off,
	0 – Follow Vehicle mode is off (default)
	1 – Follow Vehicle mode is on
VIS_INITIAL_TRANSLATE_X	The X translation in utm coordinates.
VIS_INITIAL_TRANSLATE_Y	The Y translation in utm coordinates.
VIS_INITIAL_TRANSLATE_Z	The Z translation in utm coordinates.
VIS LABELMODE	The toggle to determine whether labels are
115_21.522.1522	shown.
	0 – Do not show labels (default)
	1 – Show labels
VIS_LABELS_COLOR_BLUE	The blue color value for drawing labels,
	0.0 to 1.0.
VIS_LABELS_COLOR_GREEN	The green color value for drawing labels,
	0.0 to 1.0.
VIS_LABELS_COLOR_RED	The red color value for drawing labels, 0.0
	to 1.0.
VIS_LEGENDMODE	The toggle to determine whether a legend
	is shown.
	0 – Do not show a legend (default)
	1 – Show a legend
VIS LIGHTSMODE	The toggle to determine whether the
_	lighting model is on or off,
	0 – Lighting model is off (default)
	1 – Lighting model is on
VIS_LINKS_COLOR_BLUE	The blue color value for drawing links, 0.0
\\\ \tag_2\tag_0\tag_0\tag_2\tag_2	to 1.0.
VIS_LINKS_COLOR_GREEN	The green color value for drawing links,
	0.0 to 1.0.
VIS_LINKS_COLOR_RED	The red color value for drawing links, 0.0
	to 1.0.
VIS_NETFEATURE_BAR_COLUMN	Indicates which data column is used to
	calculate the height of the 3D Bars. It can
	be 0 to 9 and must be an integer (default
	0). This setting applies to viewing network
	features, point, and regional polygon data.
VIS_NETFEATURE_BAR_THREEDSF	Indicates the amount to multiply the data
	value from the specified data column to
	determine the height of the 3D Bars to
	draw. It can be any number, but negative
	numbers should be avoided if the data
	column is non-negative (negative heights
	will be difficult to interpret). This setting
	applies to viewing network features, point,
	and regional polygon data.

Configuration File Key	Description
VIS_NETFEATURE_BARMMODE	The toggle to create 3D bar graphs from
	the data when viewing network features,
	point, and regional polygon data.
	1 – Use 3D bar graphs (default)
	0 – Do not use 3D bar graphs
VIS_NETFEATURE_COLORMAP_COLUMN	Indicates which data column is used for
	single color mapping; it can be 0 to 9 and
	must be an integer (default 1). This setting
	applies to viewing network feature, point
	and regional polygon data.
VIS_NETFEATURE_COLORMAP_MAX	The maximum value to use for the
	colormap when a single colormap is used.
	It can be any number. This setting applies
	to viewing network features, point, and
	regional polygon data.
VIS_NETFEATURE_COLORMAP_MIN	The minimum value to use for the
	colormap when a single colormap is used.
	It can be any number. This setting applies
	to viewing network features, point, and
	regional polygon data.
VIS_NETFEATURE_COLORMODE	The toggle to use single color mapping of
	the data when viewing network features,
	point, and regional polygon data.
	1 – Use single color mapping (default)
	0 – Do not use single color mapping
VIS_NETFEATURE_TRANSMODE	The toggle to use transparency filtering of
	the data when viewing network features,
	point, and regional polygon data.
	1 – Use transparency
	0 – Do not use transparency
VIS_NETFEATURE_TWOMAP1_COLORMODE	The toggle to define which color scheme
	to use for the first colormap when two-
	color mapping is used.
	0 – Black to Red is used (default)
	1 – Black to Green is used
	2 – Black to Blue is used
	This setting applies to viewing network
VIS_NETFEATURE_TWOMAP1_COLUMN	feature, point, and regional polygon data.
A TO THE TE EWINKE I MOMBET COPONIN	Indicates which data column is used for
	two-color mapping for the first colormap;
	it can be 0 to 9 and must be an integer (default 1). This setting applies to viewing
	network feature, point and regional
	polygon data.
VIS_NETFEATURE_TWOMAP1MAP_MAX	The maximum value to use for the first
VIO_NEIPERIORE_IWONAFINAF_NAX	colormap when a two-colormap is used. It
	can be any number. This setting applies to
	viewing network features, point, and
	_
	regional polygon data.

Configuration File Key	Description
VIS_NETFEATURE_TWOMAP1MAP_MIN	The minimum value to use for the first
	colormap when a two-colormap is used. It
	can be any number. This setting applies to
	viewing network features, point, and
	regional polygon data.
VIS_NETFEATURE_TWOMAP2_COLORMODE	The toggle to define which color scheme
	to use for the second colormap when two-
	color mapping is used.
	0 – Left to Right is used (default)
	1 – Right to Left to Green is used
	This means that if the
	VIS SUMMARY TWOMAP1 COLORMODE is
	0, a value of 0 would produce a Green to
	Blue colormap, whereas a value of 1
	would produce a Blue to Green colormap.
	This setting applies to viewing network
	feature, point, and regional polygon data.
VIS_NETFEATURE_TWOMAP2_COLUMN	Indicates which data column is used for
	two-color mapping for the second
	colormap; it can be 0 to 9 and must be an
	integer (default 1). This setting applies to
	viewing network feature, point, and
	regional polygon data.
VIS_NETFEATURE_TWOMAP2MAP_MAX	The maximum value to use for the second
	colormap when a two-colormap is used. It
	can be any number. This setting applies to
	viewing network features, point, and
	regional polygon data.
VIS_NETFEATURE_TWOMAP2MAP_MIN	The minimum value to use for the second
	colormap when a two-colormap is used. It
	can be any number. This setting applies to
	viewing network features, point, and
	regional polygon data.
VIS_NETFEATURE_TWOMAPMODE	The toggle to use two-color mapping of
	the data when viewing network features,
	point, and regional polygon data.
	1 – Use two-color mapping
	0 – Do not use two-color mapping
THE MEMBERS ACCUSED TO A METAL DOTTING THE	(default)
VIS_NETWORK_ACTIVITY_LOCATION_POINTSIZE	The size of an activity location point, 0.0
VIS_NETWORK_BARRIER_POINTSIZE	to 10.0.
	The size of a barrier point, 0.0 to 10.0.
VIS_NETWORK_DETECTOR_POINTSIZE	The size of a detector point, 0.0 to 10.0.
VIS_NETWORK_NODE_POINTSIZE	The size of a node point, 0.0 to 10.0.
VIS_NETWORK_PARKING_POINTSIZE	The size of a parking point, 0.0 to 10.0.
VIS_NETWORK_TRANSIT_POINTSIZE	The size of a transit stop point, 0.0 to 10.0.
VIS_NETWORK_VIEW_ACTIVITY_LOCATIONS	The toggle to view activity locations.
	0 – Do not view activity locations
	1 – View activity locations

<b>Configuration File Key</b>	Description
VIS_NETWORK_VIEW_BARRIERS	The toggle to view barriers.
	0 – Do not view barriers
	1 – View barriers
VIS_NETWORK_VIEW_BOXES	The toggle to view boxes.
	0 – Do not view boxes
	1 – View boxes
VIS_NETWORK_VIEW_DETECTORS	The toggle to view detectors.
	0 – Do not view detectors
	1 – View detectors
VIS_NETWORK_VIEW_LINKS	The toggle to view links.
	0 – Do not view links
	1 – View links
VIS_NETWORK_VIEW_NODES	The toggle to view nodes.
	0 – Do not view nodes
	1 – View nodes
VIS_NETWORK_VIEW_PARKING	The toggle to view parking.
VIB_NETWORK_VIEW_FIREKTING	0 – Do not view parking
	1 – View parking
VIS_NETWORK_VIEW_TRANSIT	The toggle to view transit stops.
VIS_NEIWORK_VIEW_IRANSII	
	0 – Do not view transit stops
VIG NODEG GOLOD DIVIE	1 – View transit stops
VIS_NODES_COLOR_BLUE	The blue color value for drawing nodes,
MIG MODEG GOLOD GDEEN	0.0 to 1.0.
VIS_NODES_COLOR_GREEN	The green color value for drawing nodes,
	0.0 to 1.0.
VIS_NODES_COLOR_RED	The red color value for drawing nodes, 0.0
	to 1.0.
VIS_OVERLAYMODE	The toggle to determine whether the
	Overlay mode is on or off.
	0 – Overlay mode is off (default)
	1 – Overlay mode is on
VIS_PARKINGS_COLOR_BLUE	The blue color value for drawing parking
	accessories, 0.0 to 1.0.
VIS_PARKINGS_COLOR_GREEN	The green color value for drawing parking
	accessories, 0.0 to 1.0.
VIS_PARKINGS_COLOR_RED	The red color value for drawing parking
	accessories, 0.0 to 1.0.
VIS_RIDEINVEHICLEMODE	The toggle to determine whether the Ride
	In Vehicle mode is on or off,
	0 – Ride In Vehicle mode is off (default)
	1 – Ride In Vehicle mode is on
VIS_SET_VEHICLE_ID	The ID of the vehicle to use for either the
	Follow Vehicle Mode or the Ride In
	Vehicle Mode. The value can be any
	vehicle ID.
VIS_SLIDER_SCALE	The scale, 1.0 and larger;
	Default = 1.0
	Detault = 1.0

Configuration File Key	Description
VIS_SLIDER_SPEED	The speed, 0.005 to 1.0;
	Default = 1.0
VIS_SLIDER_THRESHOLD	The threshold, $0.005$ to $1.0$ ; Default = $1.0$
VIS_SLIDER_XROT	The X rotation, $0.0$ to $360.0$ ; Default = $0.0$
VIS_SLIDER_YROT	The Y rotation, $0.0$ to $360.0$ ; Default = $0.0$
VIS_SLIDER_ZROT	The Z rotation, $0.0$ to $360.0$ ; Default = $0.0$
VIS_SUMMARY_BAR_COLUMN	Indicates which data column is used to
	calculate the height of the 3D Bars; it can
	be 0 to 9 and must be an integer (default
	0). This setting applies to viewing link
	space summary, variable size box, and link
	data.
VIS_SUMMARY_BAR_THREEDSF	Indicates the amount to multiply the data
	value from the specified data column to
	determine the height of the 3D Bars to
	draw. It can be any number, but negative
	numbers should be avoided if the data
	column is non-negative (negative heights
	will be difficult to interpret).
VIS_SUMMARY_BARMMODE	The toggle to create 3D bar graphs from
	the data when viewing link space
	summary, variable size box, and link data.
	1 – Use 3D bar graphs (default)
	0 – Do not use 3D bar graphs
VIS_SUMMARY_COLORMAP_COLUMN	Indicates which data column is used for
	single color mapping; it can be 0 to 9 and
	must be an integer (default 1). This setting
	applies to viewing link space summary,
	variable size box, and link data.
VIS_SUMMARY_COLORMAP_MAX	The maximum value to use for the
	colormap when a single colormap is used.
	It can be any number. This setting applies
	to viewing link space summary, variable
VIC CHMMADY COLODMAD MIN	size box, and link data.
VIS_SUMMARY_COLORMAP_MIN	The minimum value to use for the
	colormap when a single colormap is used.
	It can be any number. This setting applies to viewing link space summary, variable
	size box, and link data.
VIS_SUMMARY_COLORMODE	The toggle to use single color mapping of
	the data when viewing link space
	summary, variable size box, and link data.
	1 – Use single color mapping (default)
	0 – Do not use single color mapping
VIS_SUMMARY_TRANSMODE	The toggle to use transparency filtering of
	the data when viewing link space
	summary, variable size box, and link data.
	1 – Use transparency
	0 – Do not use transparency (default)

Configuration File Key	Description
VIS_SUMMARY_TWOMAP1_COLORMODE	The toggle to define which color scheme to use for the first colormap when two
	color mapping is used.
	0 – Black to Red is used (default)
	1 – Black to Green is used
	2 – Black to Blue is used
	This setting applies to viewing link space
VIS_SUMMARY_TWOMAP1_COLUMN	summary, variable size box, and link data.  Indicates which data column is used for
VIS_SOMMARI_IWOMAPI_COLOMN	two-color mapping for the first colormap;
	it can be 0 to 9 and must be an integer
	(default 1). This setting applies to viewing
	link space summary, variable size box, and
	link data.
VIS_SUMMARY_TWOMAP1MAP_MAX	The maximum value to use for the first
	colormap when two-color mapping is used.
	It can be any number. This setting applies
	to viewing link space summary, variable
	size box, and link data.
VIS_SUMMARY_TWOMAP1MAP_MIN	The minimum value to use for the first
	colormap when two-color mapping is used.
	It can be any number. This setting applies
	to viewing link space summary, variable
VIS_SUMMARY_TWOMAP2_COLORMODE	size box, and link data.
VIS_SUMMARI_IWOMAPZ_COLORMODE	The toggle to define which color scheme to use for the second colormap when two-
	color mapping is used.
	0 – Left to Right is used (default)
	1 – Right to Left to Green is used
	This means that if the
	VIS_SUMMARY_TWOMAP1_COLORMODE is $0,a$
	value of 0 would produce a Green to Blue
	colormap, whereas a value of 1 would
	produce a Blue to Green colormap. This
	setting applies to viewing link space
VITO OTIMMADA DILIOMADA COLUMNI	summary, variable size box, and link data.
VIS_SUMMARY_TWOMAP2_COLUMN	Indicates which data column is used for
	two-color mapping for the second
	colormap, can be 0 to 9 and must be an integer (default 1). This setting applies to
	viewing link space summary, variable size
	box, and link data.
VIS_SUMMARY_TWOMAP2MAP_MAX	The maximum value to use for the second
_	colormap when two-color mapping is used.
	It can be any number. This setting applies
	to viewing link space summary, variable
	size box, and link data.

Configuration File Key	Description
VIS_SUMMARY_TWOMAP2MAP_MIN	The minimum value to use for the second
	colormap when two-color mapping is used.
	It can be any number. This setting applies
	to viewing link space summary, variable
	size box, and link data.
VIS_SUMMARY_TWOMAPMODE	The toggle to use two-color mapping of
	the data when viewing link space
	summary, variable size box, and link data.
	1 – Use two color mapping
	0 – Do not use two color mapping
	(default)
VIS_THREEDBARMODE	The toggle to determine whether the 3D
	Bars are displayed or just 2D color-filled
	rectangles will be displayed.
	0 2D – Color-filled rectangles will be
	displayed
	1 3D – Bars will be displayed (default)
	Note: This switch only applies to Variable
	Size Box Data, and it overrides the
	VIS_SUMMARY_BARMODE configuration
	file key.
VIS_THREEDNETMODE	The toggle to determine whether the 3D
	Network mode is on or off.
	0-3D Network mode is off (default)
	1 - 3D Network mode is on
VIS_TRANSITS_COLOR_BLUE	The blue color value for drawing transit
	stops, 0.0 to 1.0.
VIS_TRANSITS_COLOR_GREEN	The green color value for drawing transit
	stops, 0.0 to 1.0.
VIS_TRANSITS_COLOR_RED	The red color value for drawing transit
	stops, 0.0 to 1.0.
VIS_VEHICLE_DRAW3D	The toggle for 2D or 3D vehicles.
	0 – 2D vehicles
	1 – 3D vehicles
VIS_VEHICLE_DRAWMODE	The coloring method for vehicles, 0 to
	0 – Same color mode
	1 – Color by Type mode
	2 – Color by Passengers mode
	3 – Color by Velocity mode
	4 – Random coloring by vehicle ID
	5 – Color by User field mode
VIS_VEHICLE_POINTSIZE	The size of a vehicle when it is a point, 0.0
	to 10.0

## 11. VOLUME FOUR (CALIBRATIONS, SCENARIOS, AND TUTORIALS)

# 12. VOLUME FIVE (SOFTWARE: INTERFACE FUNCTIONS AND DATA STRUCTURES)

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